SONY

3-276-507-**21** (1)

SONY

Multi Disc Player

Multi Disc Player
Многодисковый проигрыватель

Инструкция по эксплуатации — RU

Інструкції з експлуатації — UA

Video CD

SUPER AUDIO CD

MP3 WMA

MEX-DV1100

© 2007 Sony Corporation

Warning

To prevent fire or shock hazard, do not expose the unit to rain or moisture.
To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

CAUTION

The use of optical instruments with this product will increase eye hazard. As the laser beam used in this CD/DVD player is harmful to eyes, do not attempt to disassemble the cabinet.
Refer servicing to qualified personnel only.

CLASS 1
LASER PRODUCT

This label is located on the bottom of the chassis.

CAUTION : CLASS 1M VISIBLE/INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. DO NOT VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

This label is located on the drive unit's internal chassis.

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Applicable accessory: Remote commander

Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources. In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries. For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.

Warning if your car's ignition has no ACC position

Be sure to set the Auto Off function (page 43).
The unit will shut off completely and automatically in the set time after the unit is turned off, which prevents battery drain.
If you do not set the Auto Off function, press and hold (OFF) until the display disappears each time you turn the ignition off.

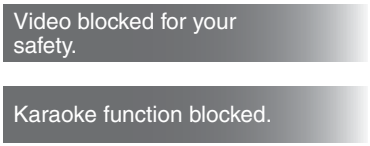
To cancel the demonstration (DEMO) display, see page 43.

On safety

- Comply with the traffic laws in your country.
- For your safety, the monitor connected to the VIDEO OUT turns off automatically when the parking brake is not applied.

Preventing an accident

Pictures and karaoke function are available only after you park the car and set the parking brake.
If the car starts moving during video playback or karaoke mode, pictures from the VIDEO OUT automatically disappear after displaying the following caution.
The pictures on the screen are turned off and the karaoke mode is deactivated, but audio source can be heard.



Do not operate the unit or watch the monitor while driving.

Table of Contents

Welcome ! 6
Copyrights 7

Playable discs and symbols used in this manual 8

Location and function of controls 10
Main unit 10
Card remote commander RM-X166 12

Getting Started

Installing the unit and the optional monitor 14

Resetting the unit 14

Preparing the card remote commander 14

Detaching the front panel 15
Attaching the front panel 15

Basic Operations

Playing video discs 16

Playing audio discs 18

Listening to the radio 20

Advanced Operations — Discs

Playing DivX®/JPEG files 21
DivX® video playback 21
JPEG image playback 21

Using PBC functions — Playback control 22

Using play mode menu 22

Viewing time/text information of the disc 24

Configuring audio settings 24
Changing the audio language/format 25
Checking the program format 25
Adjusting the audio output level — DVD level 26

Magnifying pictures 26

Adjusting the picture quality — Picture EQ 27
Customizing the picture quality 27

Locking discs — Parental control 28
Activating parental control 28
Changing the area and its movie rating level 28

Repeat and shuffle play 29

Direct search play 30

Enjoying karaoke 31

Listing up tracks/images/video files — LIST 32
Selecting a track/image/video file 32
Selecting a file type 32

Viewing audio disc information 32

Configuring playback settings for Super Audio CD 33
Selecting a playback layer 33
Selecting the sound quality 34

Advanced Operations — Radio

Storing and receiving stations 34
Storing automatically — BTM 34
Storing manually 34
Receiving stored stations 35

RDS 35
Overview 35
Setting AF and TA 35
Selecting PTY 36
Setting CT 36

Sound Adjustment

Adjusting the sound characteristics 37

Customizing the equalizer curve — EQ7 Tune 37

Settings

Visual setup 38
Basic operation of visual setup 38
Language setup for display or soundtrack 39
Display setup 39
Custom setup 40
Audio setup 41
Resetting all settings 41

System setup 42
Basic operation of system setup 42
Setting the clock 45

Using Optional Equipment

Auxiliary equipment 45

CD changer 46

Rotary commander RM-X4S. 47

Additional Information

Precautions 48
Notes on discs 48
Playback order of MP3/WMA/JPEG/DivX® files 49
About MP3 files 49
About WMA files 49
About JPEG files 49
About DivX® files 49

Maintenance 50

Removing the unit 50

Specifications 51

Troubleshooting. 52
Error displays/Messages 54

Glossary. 55

Language code/area code list. 57

Index 58

For installation and connections, see the supplied installation/connections manual.

Welcome !

Thank you for purchasing this Sony Multi Disc Player. Before operating this unit, read this manual thoroughly and retain it for future reference.

Features

Follow the page reference for details.

DVD, VCD, Super Audio CD*1, CD playback
→ page 8

Compatible with various disc formats.

2000MP3, 2000WMA

Can play up to 2,000 tracks*2 recorded on DVD-R DL in MP3/WMA format.

Multi-disc resume playback
→ page 40

Stores the point where playback is stopped for up to 5 discs and can resume DVD VIDEO/ VCD playback even after the disc is ejected.

EQ7
→ page 37

7 preset equalizer curves, which can be further customized by tuning 7 different bands.

Picture EQ
→ page 27

Picture tone selectable from preset settings according to the car's interior/ambient light.

KARAOKE
→ page 31

You can connect a microphone (not supplied) and enjoy karaoke.

FRONT·AUX
→ page 45

Allows connection of a portable audio device (analog connection).

REAR-AUX IN (Lite)
→ page 45

The BUS AUDIO IN/AUX AUDIO IN terminals*3 on the rear allow connection and audio output of an auxiliary device, such as portable audio device (analog connection), hideaway navigation device, TV tuner box, etc.

*1 *Playback of multi-channel area is not supported.*
*2 *Depending on track length and recorded sampling rate.*
*3 *Unavailable when another optional device is connected to the BUS CONTROL IN terminal.*

Copyrights

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

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Playable discs and symbols used in this manual

This unit can play various video/audio discs.
The following chart helps you to check if a disc is supported by this unit, as well as what functions are available for a given disc type.

	Disc symbol in manual	Disc format	Disc logo
VIDEO	DVD	**DVD VIDEO**	
		DVD-R*1 **DVD-R DL***1 **(Video mode/VR mode)**	
		DVD-RW*1 **(Video mode/VR mode)**	
		DVD+R*1 **DVD+R DL***1	
		DVD+RW*1	
	VCD	**Video CD (Ver. 1.0/1.1/2.0)**	Video CD
AUDIO	SA-CD	**Super Audio CD**	
	CD	**Audio CD**	
		CD-ROM*2 **CD-R***2	
		CD-RW*2	

*1 *Audio files can also be stored. For details, see page 9.*
*2 *Video/image files can also be stored. For details, see page 9.*

Note
"DVD" may be used in this manual as a general term for DVD VIDEOs, DVD-Rs/DVD-RWs, and DVD+Rs/DVD+RWs.

The following chart shows the supported compression formats, their file types, and the disc types on which those files can be stored.
Available functions differ depending on the format, regardless of disc type. The format symbols below appear next to the description of functions available for that format.

Format symbol in manual	File type	Storable disc type	
MP3	MP3 audio file	**DATA DVDs** DVD-ROM DVD-R DVD-R DL DVD-RW DVD+R DVD+R DL DVD+RW	**DATA CDs** CD-ROM CD-R CD-RW
WMA	WMA audio file		
JPEG	JPEG image file		
DivX	DivX® video file		

Tip
For details on compression formats, see page 49.

Unsupported discs

The following discs cannot be played on this unit.
• 8 cm (3 1/4 in) discs
• 12 cm (4 3/4 in) discs utilizing only the inner 8 cm (3 1/4 in) data portion (the rest is transparent)
• CD-ROM containing files other than MP3/WMA/JPEG/DivX
• CD-G
• Photo-CD
• VSD (Video Single Disc)
• DVD-ROM containing files other than MP3/WMA/JPEG/DivX
• DVD-RAM
• DVD-Audio
• Active-Audio (Data)
• SVCD (Super Video CD)
• CDV
• Discs created in Packet Write format
• Discs in DTS format

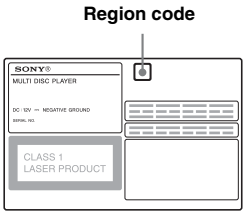
Note
Even compatible discs may not be playable on this unit, depending on their recorded condition.

Region code

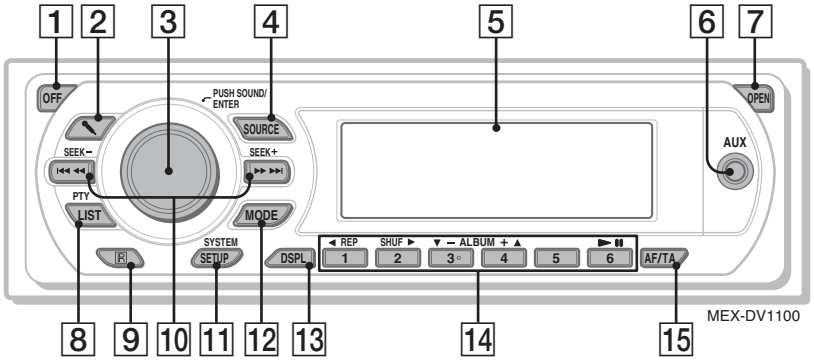
The region system is used to protect software copyrights.
The region code is located on the bottom of the unit, and only DVDs labeled with an identical region code can be played on this unit.

DVDs labeled ALL can also be played.

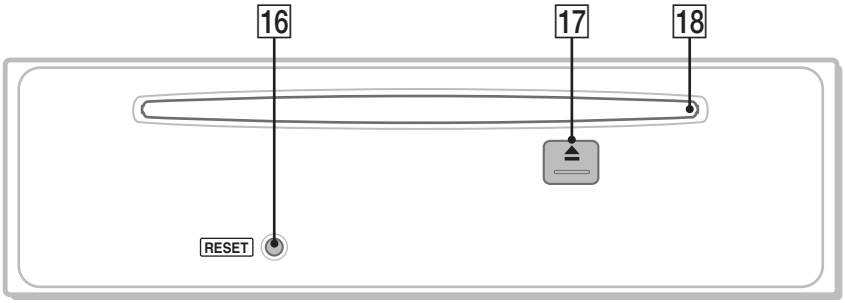
If you try to play any other DVD, the message “Playback prohibited by region code.” will appear on the monitor screen. Depending on the DVD, no region code may be labeled even though playing the DVD is prohibited by area restrictions.



Main unit



Front panel removed



Refer to the pages listed for details.
Instructions in this manual generally describe the controls on the card remote commander. You can also use the controls on the main unit if they have the same or similar names to those on the card remote commander.

1 **OFF button** 16, 18, 22
To power off/stop the source (press); shut off completely (press and hold).

2 **(Microphone) button** 31
To activate the karaoke mode.

3 **Volume control dial/SOUND/ENTER button** 26, 32, 34, 36, 37, 42, 45, 46
To adjust the volume/adjust a setting (rotate); open the sound menu/apply a setting (press).

4 **SOURCE button** 15, 20, 34, 46
To power on; change the source (Radio/Disc/AUX).

5 **Display window**

6 **AUX input jack** 45
To connect a portable audio device.

7 **OPEN button** 15, 16, 17, 18

8 **LIST/PTY (Program Type) button** 32, 36
To list up*1; select PTY in RDS.

9 **Receptor for the card remote commander**

10 **SEEK –/+ buttons** 17, 19, 20, 21
Disc:
To skip a chapter/track/scene/file (press); reverse/fast-forward disc (press and hold momentarily); reverse/fast-forward track (press and hold).*2
Radio:
To tune in stations automatically (press); find a station manually (press and hold).

11 **SYSTEM SETUP button** 26, 33, 34, 37, 42, 45, 46
To open the system setup menu.

12 **MODE button** 20, 34, 46
To select the radio band (FM/MW/LW); select an auxiliary device*3.

13 **DSPL (Display) button** 24, 35, 45
To change display items.

14 **Number buttons**
Disc:
①: **◄ REP** 16, 17, 29, 47
②: **SHUF ►** 16, 17, 29, 47
③/④: **ALBUM –/+** (▼/▲) 16, 17, 19, 21, 46
To skip an album or folder/move the cursor (press); skip albums or folders continuously (press and hold).*4
⑥: **►II** (play/pause) 16, 17, 18, 19, 21
To start/pause playback.
Radio:
To receive stored stations (press); store stations (press and hold).

15 **AF (Alternative Frequencies)/TA (Traffic Announcement) button** 35, 36
To set AF and TA in RDS.

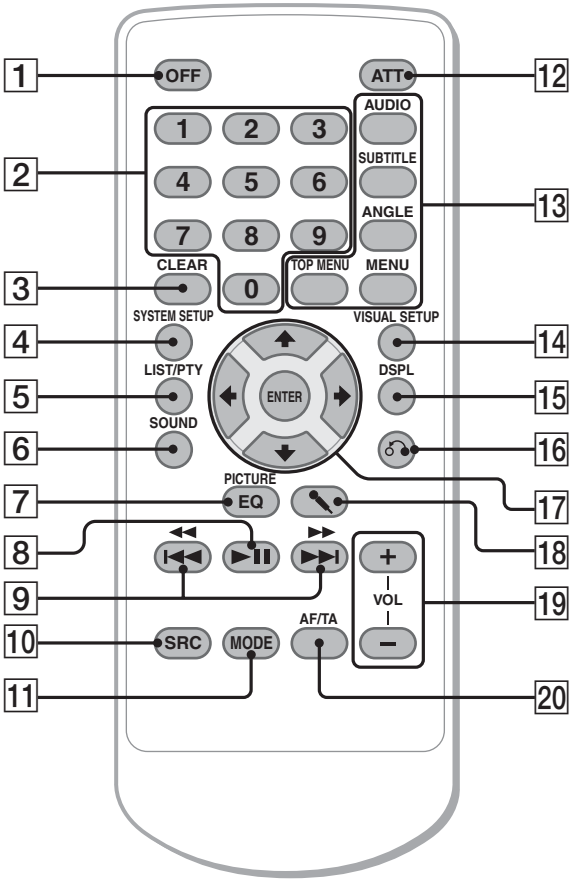
16 **RESET button** 14

17 **⏏ (eject) button** 17, 18
To eject the disc.

18 **Disc slot** 16, 18
To insert the disc.

*1 *When a Super Audio CD/CD/MP3/WMA/JPEG/DivX is played.*
*2 *Operation differs depending on the disc (page 17, 19).*
*3 *When two auxiliary devices are used.*
*4 *If the changer is connected, operation is different (page 46).*

Card remote commander RM-X166



Refer to the pages listed for details.
Remove the insulation film before use (page 14).

1 **OFF button** 16, 18, 22
To power off/stop the source (press); shut off completely (press and hold).

2 **Number buttons** 16, 17, 22, 23, 28, 29, 30, 31, 34, 36
Disc:
To locate a title/chapter/track.
Radio:
To receive stored stations (press); store stations (press and hold).

3 **CLEAR button** 28, 31
To delete an entered number.

4 **SYSTEM SETUP button** 26, 33, 34, 37, 42, 45, 46
To open the system setup menu.

5 **LIST/PTY (Program Type) button** 32, 36
To list up*1; select PTY in RDS.

6 **SOUND button** 31, 37
To open the sound menu.

7 **PICTURE EQ button** 27
To select the picture quality.

8 **▶II (Play/Pause) button** 16, 17, 18, 19, 21
To start/pause playback.

9 **I◀◀ ◀◀/▶▶ ▶▶I buttons** 17, 19, 20, 21
Disc:
To skip a chapter/track/scene/file (press); reverse/fast-forward disc (press and hold momentarily); reverse/fast-forward track (press and hold).*2
Radio:
To tune in stations automatically (press); find a station manually (press and hold).

10 **SRC (Source) button** 20, 34, 46
To power on; change the source (Radio/Disc/AUX).

11 **MODE button** 20, 34, 46
To select the radio band (FM/MW/LW); select an auxiliary device*3.

12 **ATT (Attenuate) button**
To attenuate the sound (to cancel, press again).

13 **DVD playback setting buttons**
(AUDIO): 17, 25
To change the audio language/format. (For VCD/CD/MP3/WMA, to change the audio channel.)
(SUBTITLE): 17
To change the subtitle language.
(ANGLE): 17
To change the viewing angle.
(TOP MENU): 17
To open the top menu on a DVD.
(MENU): 17
To open the menu on a disc.

14 **VISUAL SETUP button** 22, 25, 26, 27, 28, 30, 31, 33, 34, 38
To open the play mode/visual setup menu.

15 **DSPL (Display) button** 24, 35, 45
To change display items.

16 **↶ (Return) button** 22, 23, 28, 29, 33, 38
To return to the previous display; return to the menu on a VCD*4.

17 **←/↑/↓/→ (Cursor)/ENTER buttons**
To move the cursor and apply a setting.

18 **🎤 (Microphone) button** 31
To activate the karaoke mode.

19 **VOL (Volume) +/– buttons** 36
To adjust the volume.

20 **AF (Alternative Frequencies)/TA (Traffic Announcement) button** 35, 36
To set AF and TA in RDS.

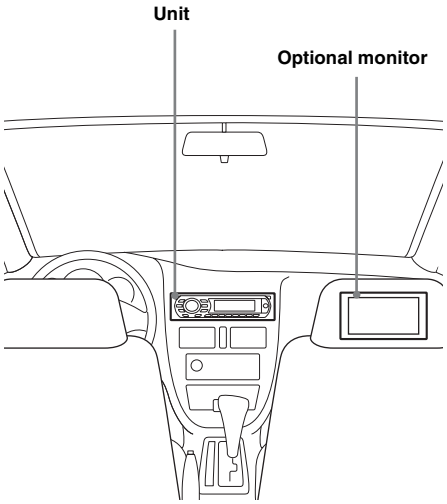
*1 *When a Super Audio CD/CD/MP3/WMA/JPEG/DivX is played.*
*2 *Operation differs depending on the disc (page 17, 19).*
*3 *When two auxiliary devices are used.*
*4 *When playing with PBC function.*

Note
If the unit is turned off and the display disappears, it cannot be operated with the card remote commander unless (SOURCE) on the main unit is pressed, or a disc is inserted to activate the unit first.

Tip
For details on how to replace the battery, see "Replacing the lithium battery of the card remote commander" on page 50.

Installing the unit and the optional monitor

Firstly, install and connect the unit and the optional monitor.
This unit can be operated using the displays that appear on the unit and/or the optional monitor. Note that this manual includes instructions concerning displays on both unit and/or optional monitor.



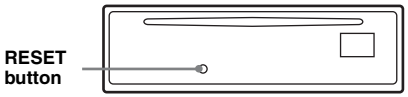
For details, see the supplied installation/ connections manual.

Note

Be sure to install the optional monitor safely, and in a place where it does not obstruct the driver's view.

Resetting the unit

Before operating the unit for the first time, or after replacing the car battery or changing the connections, you must reset the unit.
Detach the front panel (page 15) and press the RESET button with a pointed object, such as a ball-point pen.

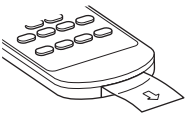


Note

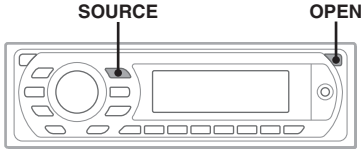
Pressing the RESET button will erase the clock setting and some stored contents.

Preparing the card remote commander

Before using the card remote commander for the first time, remove the insulation film.



Detaching the front panel



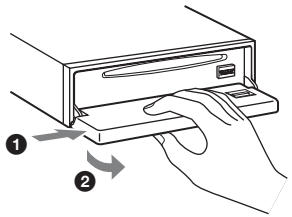
You can detach the front panel of this unit to prevent theft.

Caution alarm

If you turn the ignition switch to the OFF position without detaching the front panel, the caution alarm will sound for a few seconds. The alarm will only sound if the built-in amplifier is used.

1 Press (OPEN) while the unit is off.
The front panel is flipped down.

2 Slide the front panel to the right, then gently pull out the left end of the front panel.

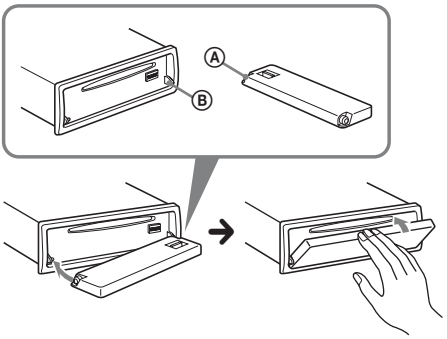


Notes

- *Do not drop or put excessive pressure on the front panel and display window.*
- *Do not subject the front panel to heat/high temperature or moisture. Avoid leaving it in a parked car or on a dashboard/rear tray.*

Attaching the front panel

Place the hole Ⓐ of the front panel onto the spindle Ⓑ on the unit, then lightly push the left side in.
Press (SOURCE) on the main unit (or insert a disc) to operate the unit.

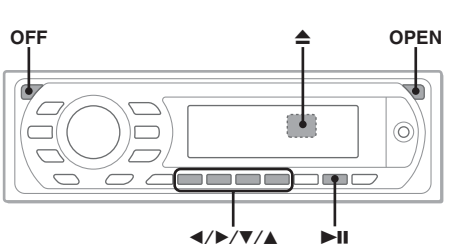


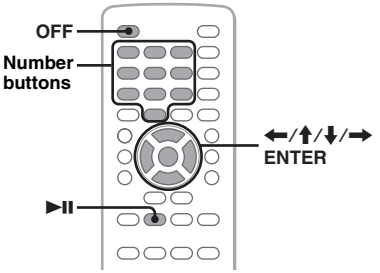
Note

Do not put anything on the inner surface of the front panel.

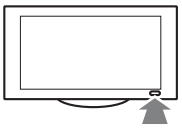
Playing video discs

Depending on the disc, some operations may be different or restricted.
Refer to the operating instructions supplied with your disc.

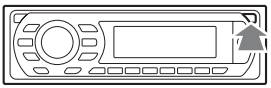




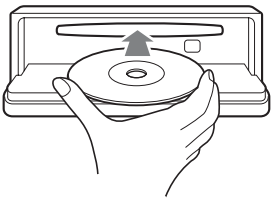
1 **Turn on your monitor, then select the input source on your monitor corresponding to this unit.**



2 **Press (OPEN) on the main unit.**



3 **Insert the disc (label side up).**



4 **Close the front panel.**

Playback starts automatically.
If playback does not start automatically, press ►II.

5 **If the DVD menu appears, press (1)(◄)/(2)(►)/(3)(▼)/(4)(▲) to move the cursor, then press (6) (►II) to confirm.**

With the card remote commander, press the ←/↑/↓/→/number buttons to move the cursor, then press (ENTER) to confirm.

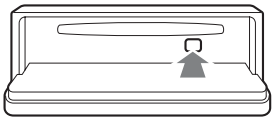
To stop playback

Press (OFF).

Note

Discs in DTS format are not supported. The sound is not output if the DTS format is selected.

To eject the disc

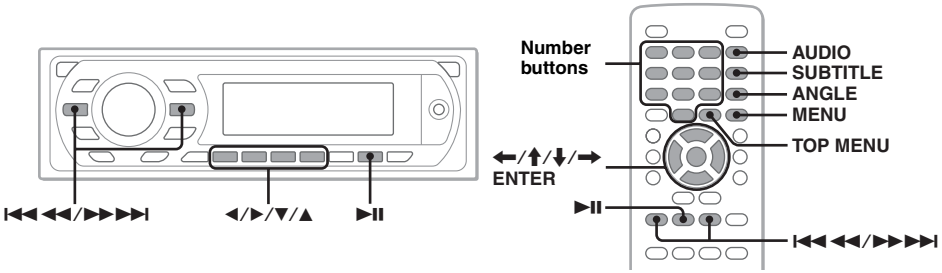


1 **Press (OPEN) on the main unit.**
2 **Press ⏏ (rear of front panel).**
3 **Close the front panel.**

About the DVD menu

A DVD is divided into several sections, which make up a picture or music feature. These sections are called “titles.” When you play a DVD that contains several titles, you can select a desired title using the DVD’s top menu. For DVDs that allow you to select items such as subtitle/sound language(s), select these items using the DVD menu.

Other playback operations

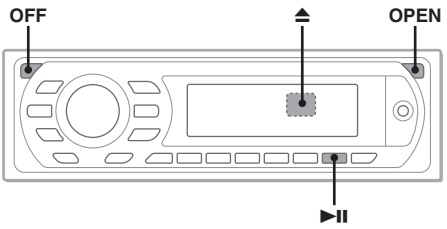


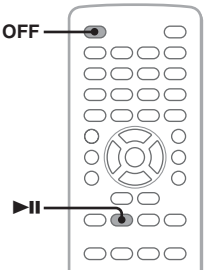
To	Press
pause/resume play after pause	▶II
skip a chapter/track/scene/file	⏮◀◀/▶▶⏭
reverse/fast-forward disc	and hold ⏮◀◀/▶▶⏭ momentarily; and then repeatedly to switch the speed (× 2 → × 12 → × 120 → × 2…)
cancel reverse/fast-forward	▶II
show the DVD menu*1	**Remote:** (TOP MENU) or (MENU)
select items in the DVD menu*1	**Main unit:** (1)(◀)/(2)(▶)/(3)(▼)/(4)(▲) to move the cursor, then press (6) (▶II) to confirm **Remote:** ←/↑/↓/→/number buttons to move the cursor, then press (ENTER) to confirm
change audio language/format/channel (page 25)*1	**Remote:** (AUDIO) repeatedly until the desired item appears
turn off/change the subtitle language*1	**Remote:** (SUBTITLE) repeatedly until the desired item appears*2
change the viewing angle*1	**Remote:** (ANGLE) repeatedly until the desired angle number appears

*1 *Unavailable depending on the disc.*
*2 *When the 4-digit input prompt appears, input the language code (page 57) for the desired language.*

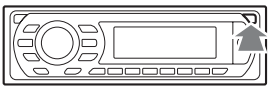
Playing audio discs

Depending on the disc, some operations may be different or restricted.
Refer to the operating instructions supplied with your disc.

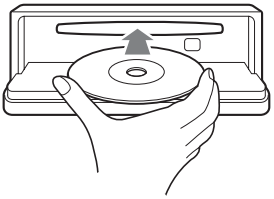




1 **Press (OPEN) on the main unit.**



2 **Insert the disc (label side up).**



3 **Close the front panel.**

Playback starts automatically.
If playback does not start automatically, press ►II.

To stop playback

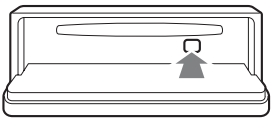
Press (OFF).

Note

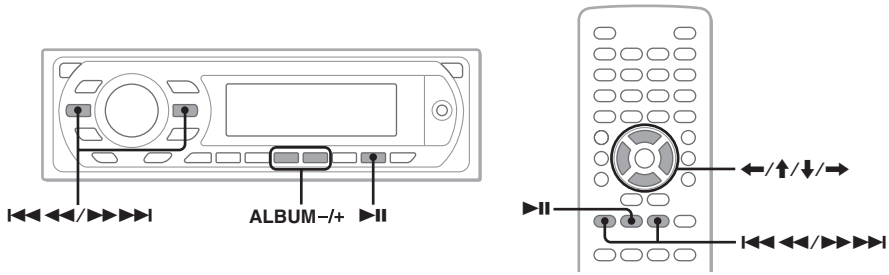
Discs in DTS format are not supported. The sound is not output if the DTS format is selected.

To eject the disc

1 **Press (OPEN) on the main unit.**
2 **Press ⏏ (rear of front panel).**
3 **Close the front panel.**



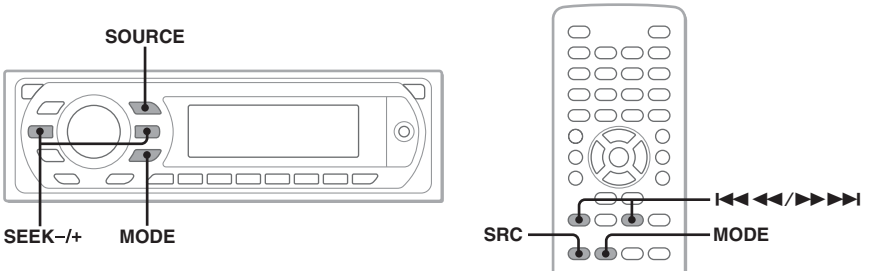
Other playback operations



To	Press
pause/resume play after pause	►II
skip a track	I◄◄ ◄◄ (←)/►► ►►I (→)
reverse/fast-forward track	and hold I◄◄ ◄◄/►► ►►I
skip an album*	**Main unit:** ③ (ALBUM –)/④ (ALBUM +) **Remote:** ↑/↓
skip albums continuously*	**Main unit:** and hold ③ (ALBUM –)/④ (ALBUM +) **Remote:** and hold ↑/↓

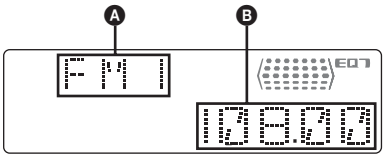
* *When an MP3/WMA is played.*

Listening to the radio



1 **Press (SOURCE) repeatedly until "TUNER" appears.**

2 **Press (MODE) repeatedly until the desired band (FM1, FM2, FM3, MW or LW) appears.**



Ⓐ Radio band/Function
Ⓑ Frequency*

* *While receiving an RDS station, program service name appears. For details, see "RDS" on page 35.*

3 **Perform tuning.**

To tune automatically
Press (SEEK) –/+.
Scanning stops when the unit receives a station. Repeat this procedure until the desired station is received.

To tune manually
Press and hold (SEEK) –/+ to locate the approximate frequency, then press (SEEK) –/+ repeatedly to fine adjust to the desired frequency.

Tip
For details on other radio functions, see "Advanced Operations — Radio" on page 34.

With the card remote commander
Use (SRC) instead of (SOURCE), and ⏮ ◀◀/▶▶ ⏭ instead of (SEEK) –/+.

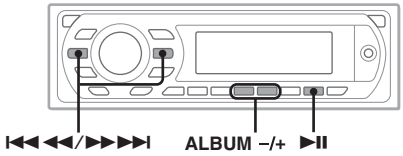
This chapter consists of the following sections.

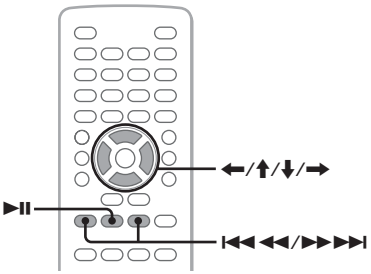
- **Video-specific operations*** **→ page 21 to 29**
- **Video*/audio common operations** **→ page 29 to 32**
- **Audio-specific operations** **→ page 32 to 34**

* *Including JPEG operations.*

Playing DivX®/JPEG files

DivX JPEG





Note

If the disc contains multiple file types, only the selected file type (audio/video/image) can be played. To play DivX video files or JPEG image files of such a disc, press LIST/PTY during playback, select the desired file type (video/image) to list up, then select the desired file (page 32).

DivX® video playback

DivX® is a video file compression technology, developed by DivX, Inc. This product is an official DivX® Certified product and can play all versions of DivX® video (including DivX® 6) with standard playback of DivX® media files.

You can control the DivX playback in the same way as other video discs (page 16), as well as some audio playback control features.

To	Press
skip an album (folder)	**Main unit:** ③ (ALBUM –)/ ④ (ALBUM +)
skip albums (folders) continuously	**Main unit:** and hold ③ (ALBUM –)/ ④ (ALBUM +)

Tip

You can also select a file to play using a list (page 32).

JPEG image playback

You can enjoy a slide show of JPEG files on this unit. The slide show starts automatically when you insert a disc or press ►II. For details on how to start playback, follow step 1 to 4 of "Playing video discs" on page 16.

Other playback operations

To	Press
rotate the image	**Remote:** ←/→ (rotates every 90º)
skip an image	I◄◄ ◄◄/►►►►I
skip an album	**Remote:** ↑/↓ **Main unit:** ③ (ALBUM –)/ ④ (ALBUM +)
skip albums continuously	**Remote:** and hold ↑/↓ **Main unit:** and hold ③ (ALBUM –)/ ④ (ALBUM +)

Notes

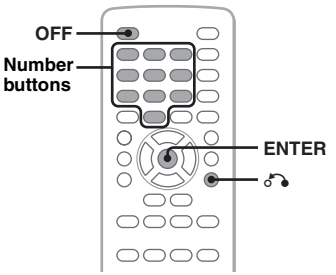
- *If a large-sized image is rotated, it may take longer to display.*
- *Progressive JPEG files cannot be displayed.*

Tip

You can also select a file to play using a list (page 32).

Using PBC functions — Playback control

VCD



The PBC menu assists your operation interactively while a PBC compatible VCD is played.

1 Start playing a PBC compatible VCD.
The PBC menu appears.

2 Press the number buttons to select the desired item, then press ENTER.

3 Follow the instructions in the menu for interactive operations.

To return to the previous display, press ↩.

Playing without the PBC function

1 During playback, press OFF.
Playback stops.

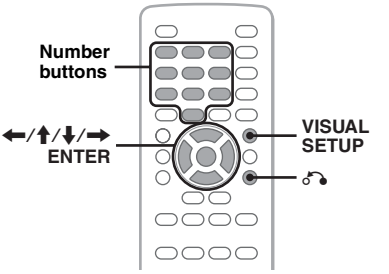
2 Press the number buttons to select the desired item, then press ENTER.
"Play without PBC." appears and playback starts. The PBC menu does not appear during playback.

Notes
- *The items on the menu, and operation procedures differ depending on the disc.*
- *During PBC playback, the track number, playback item, etc., do not appear in the play mode menu (page 22).*
- *Resume playback is unavailable during playback without PBC.*

Tip
To resume PBC playback, stop playback by pressing OFF, then press ▶II.

Using play mode menu

DVD VCD JPEG DivX



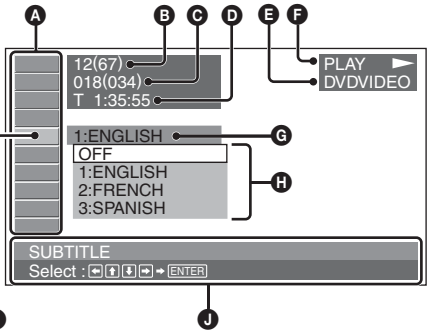
You can use the play mode menu on this unit to control playback or configure playback settings.

To show the play mode menu, press VISUAL SETUP during playback.
To hide, press VISUAL SETUP again.

Notes
- *During audio disc playback, VISUAL SETUP is inactive.*
- *During JPEG playback, VISUAL SETUP is active only when an image is fully displayed.*

Tip
If you press VISUAL SETUP while the playback is stopped, the visual setup menu (by the monitor) appears where you can configure various settings, such as display language, audio adjustment, etc. (page 38).

E.g., when playing a DVD



Ⓐ Play mode menu items
For details, see "List of play mode menu items" on page 23.
Ⓑ DVD: Title number/Total
VCD: Track number/Total*1
JPEG: Album number/Total
DivX: Album (folder) number/Total
Ⓒ DVD: Chapter number/Total
JPEG: Image number/Total
DivX: File number/Total
Ⓓ Elapsed playback time*2

E Format
F Playback status (PLAY ►, PAUSE ❚❚, etc.)
G Current setting
H Options
I Selected item
J Selected item name and/or operation assist messages

*1 *When playing a VCD with the PBC function (page 22), no indication appears.*
*2 *During JPEG playback, no indication appears.*

List of play mode menu items

Press ←/↑/↓/→/number buttons to select an item, then press ENTER.
To return to the previous display, press ↶.
Refer to the pages listed for details.

TITLE, TRACK 30

To select a title, scene or track to play.

DVD VCD

ALBUM 30

To select an album or folder to display.

JPEG DivX

CHAPTER 30

To select a chapter to play.

DVD

IMAGE 30

To select an image to display.

JPEG

FILE 30

To select a video file to play.

DivX

TIME 30

To check the elapsed playback time; input time code.

DVD VCD DivX

AUDIO 17, 25

To change the audio language/format/channel; check the program format.

DVD VCD DivX

SUBTITLE 17

To turn subtitles on or off/change the subtitle language.

DVD DivX

ANGLE 17

To change the angle.

DVD *

CENTER ZOOM 26

To magnify an image.

DVD VCD DivX

REPEAT 30

To play a title/chapter/track/album/image/video file repeatedly.

DVD VCD JPEG DivX

SHUFFLE 30

To play chapters/tracks/images/video files in random order.

DVD * VCD JPEG DivX

PICTURE EQ 27

To adjust picture quality.

DVD VCD JPEG DivX

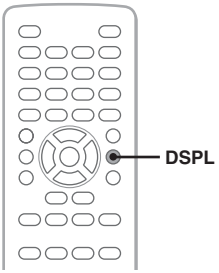
* *Excluding DVD-R/DVD-R DL/DVD-RW in VR mode.*

Tip

When "SHUFFLE" or "REPEAT" is activated or "ANGLE" is available, its check-box lights up in green (e.g., ☐ → ☐). However, you may not be able to change the angle depending on the scene, even if the check-box is lit in green.

Viewing time/text information of the disc

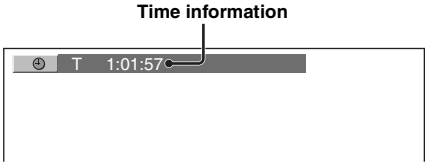
DVD VCD JPEG DivX



Checking time information

The playback time and remaining time of the current title, chapter, track, etc., can be checked during video/image playback.

1 During playback, press (DSPL).
The current playback information appears.



2 Press (DSPL) repeatedly to switch the time information.

Time information differs depending on the disc/format as follows.

DVD playback
- T **:**:**
  Elapsed playback time of the current title
- T-**:**:**
  Remaining time of the current title
- C **:**:**
  Elapsed playback time of the current chapter
- C-**:**:**
  Remaining time of the current chapter

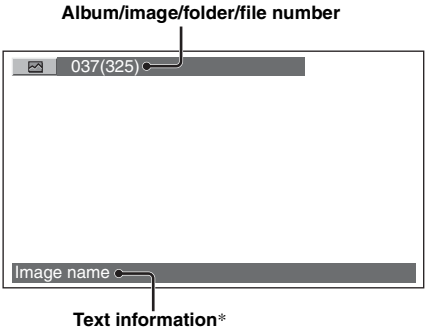
VCD playback
(Only when playing version 1.0/1.1, or version 2.0 without PBC function.)
- T **:**
  Elapsed playback time of the current track
- T-**:**
  Remaining time of the current track
- D **:**
  Elapsed playback time of the current disc
- D-**:**
  Remaining time of the current disc

JPEG playback
- Album number/Total
- Image number/Total

DivX playback
- Album (folder) number/Total
- File number/Total
- T **:**
  Elapsed playback time of the current file

Checking text information

The text information (album name, image name, etc.) of JPEG/DivX files can be checked.



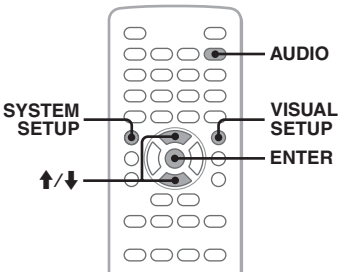
* *"NO TEXT" appears it there is no text information.*

Text information differs depending on the format as follows.

JPEG playback
- Album name (when the album number is displayed)
- Image name (when the image number is displayed)

DivX playback
- Album (folder) name (when the album (folder) number is displayed)
- File name (when the file number is displayed)

Configuring audio settings

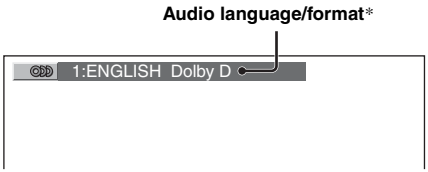


Note
Discs in DTS format are not supported. The sound is not output if the DTS format is selected.

Changing the audio language/ format DVD DivX

For DVD, the audio language can be changed if the disc is recorded with multilingual tracks. For DVD/DivX, you can change the audio format when playing a disc recorded in multiple audio formats (e.g., Dolby Digital).

1 During playback, press (AUDIO) repeatedly until the desired audio language/format appears.



* *When playing DivX, audio format/channel (e.g., "Dolby D 2CH") appears.*

The audio language switches among the available languages.
When the 4-digit input prompt appears, input the language code (page 57) for the desired language.
When the same language is displayed two or more times, the disc is recorded in multiple audio formats.

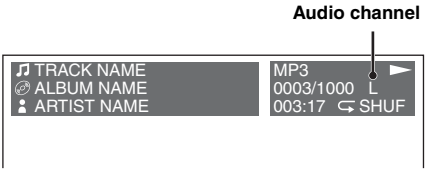
Changing the audio channel

VCD CD MP3 WMA

When playing VCD/CD/MP3/WMA, you can select the right or left channel sound to listen through both right and left speakers.
The options are indicated below.

STEREO (ST): Standard stereo sound (default)
1/L (L): Left channel sound (monaural)
2/R (R): Right channel sound (monaural)

1 During playback, press (AUDIO) repeatedly until the desired audio channel appears.
E.g., when playing an MP3



Note
You may not be able to change the audio setting depending on the disc.

Tip
You can also change the settings of video discs by selecting "AUDIO" in the play mode menu (page 22).

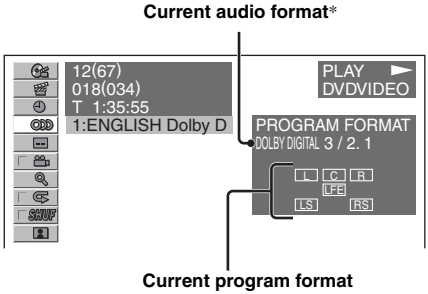
Checking the program format

DVD

You can check the number of channels and component position on the DVD VIDEO being played.

1 During playback, press (VISUAL SETUP).
The play mode menu appears.

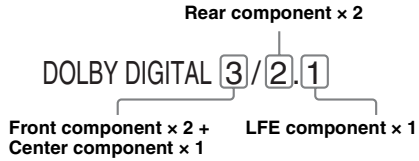
2 Press ↑/↓ to select (AUDIO).
The program format appears.



* *"PCM," "DOLBY DIGITAL," etc., appears depending on the disc.*

The letters in the program format display represent the following sound components and its position.
[L] : Front (left)
[R] : Front (right)
[C] : Center
[LS] : Rear (left)
[RS] : Rear (right)
[S] : Rear (monaural): The rear component of the Dolby Surround processed signal and the Dolby Digital signal
[LFE] : Low Frequency Effect signal

The program format name and channel numbers appear as follow.
Example: Dolby Digital 5.1 ch



To hide the play mode menu, press (VISUAL SETUP).

Adjusting the audio output level — DVD level DVD

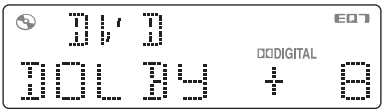
You can adjust the audio output level for a DVD recorded in Dolby Digital format, to reduce the volume level differences between disc and source.

1 During playback, press (SYSTEM SETUP).
The system setup item appears on the main unit.

2 Press ↑/↓ to select "DVD-LVL," then press (ENTER).

3 Press ↓ to set to "ADJST ON," then press (ENTER).

4 Press ↑/↓ to adjust the output level.
The output level is adjustable in single steps, between –10 and +10.

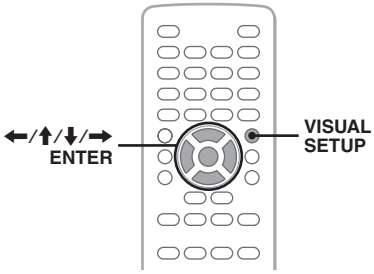


5 Press (ENTER).
The setting is complete.

With the main unit
Rotate the volume control dial instead of pressing ↑/↓.

Magnifying pictures

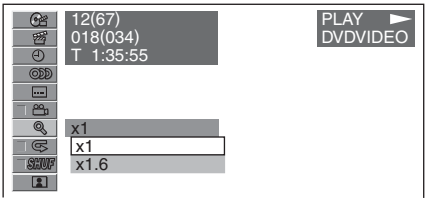
DVD VCD DivX



You can magnify pictures.

1 During playback, press (VISUAL SETUP).
The play mode menu appears.

2 Press ↑/↓ to select (CENTER ZOOM), then press (ENTER).
The current option appears.



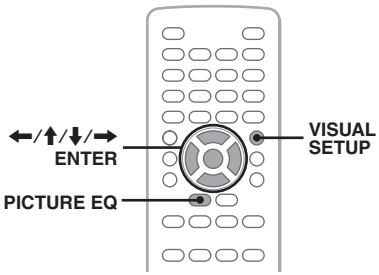
3 Press ↑/↓ to select the desired option (×1, ×1.6*), then press (ENTER).
* *The picture may become grainy.*
The picture is magnified.

To scroll the picture, press ←/↑/↓/→.
To restore the original scale, select "×1" in step 3.
To hide the play mode menu, press (VISUAL SETUP).

Notes
- *Depending on the disc, you may not be able to change the magnification.*
- *When you resume playback, the picture returns to its original scale.*

Adjusting the picture quality — Picture EQ

DVD VCD JPEG DivX



You can select a picture quality suitable for the interior brightness of the car.

1 During playback, press (PICTURE EQ) repeatedly until the desired option appears.

Options differ depending on the setting in visual setup (page 40).
In visual setup, the settings of "PICTURE EQ" in "CUSTOM SETUP" switch the options as follows.

AUTO: Switches the night time/day time use options automatically according to the dimmer setting in system setup (page 43).
LIGHT OFF: Shows the day time use options.
LIGHT ON: Shows the night time use options.

The options for each setting are indicated below.

For all settings

NORMAL: Normal picture quality.

CUSTOM: User-adjustable settings (page 27).

When set to "LIGHT OFF"/"AUTO" (with "DIM OFF")

DAYTIME: Suitable in a bright place.

SUNSET: Suitable when it gets little dark.

SHINE: Suitable in a very bright place (e.g., when sunlight reflects on the monitor).

When set to "LIGHT ON"/"AUTO" (with "DIM ON")

NIGHT: Darkens the monitor to not distract your driving at night.

MIDNIGHT: Darkens the monitor more than the "NIGHT" setting.

THEATER: Brightens the monitor; suitable when you want to enjoy a bright monitor at night.

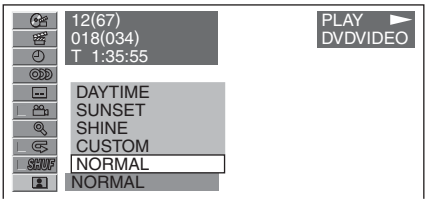
Tip
You can also change the picture quality by selecting "PICTURE EQ" in the play mode menu (page 22).

Customizing the picture quality

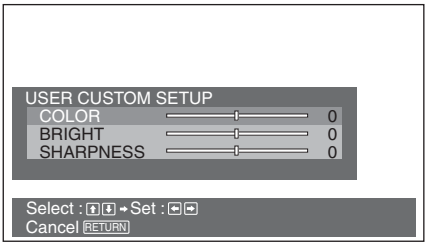
The option "CUSTOM" allows you to make your own picture quality setting by adjusting picture tones. You can store adjustments for both "LIGHT OFF' and "LIGHT ON" settings.

1 During playback, press (VISUAL SETUP).
The play mode menu appears.

2 Press ↑/↓ to select [PICTURE EQ] (PICTURE EQ), then press (ENTER).
The current option appears.



3 Press ↑/↓ to select "CUSTOM," then press (ENTER).



4 Press ↑/↓ to select the picture tone, then press ←/→ to adjust the level.

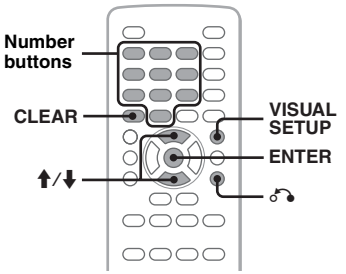
5 Press (ENTER).

To hide the play mode menu, press (VISUAL SETUP).

Locking discs — Parental control

DVD *

* *Excluding DVD-R/DVD-R DL/DVD-RW in VR mode.*



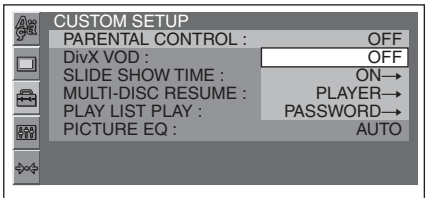
You can lock a disc, or set playback restrictions according to a predetermined level such as viewer age. Restricted scenes can be blocked or replaced with different scenes when a parental control compatible DVD is played.

Activating parental control

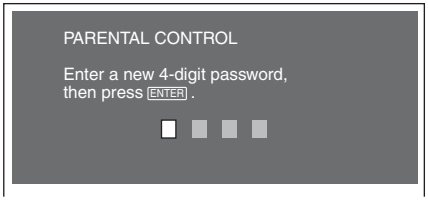
1 Press (VISUAL SETUP) while the unit is off.
The visual setup menu appears.

2 Press ↑/↓ to select (CUSTOM SETUP), then press (ENTER).
The custom setup items appear.

3 Press ↑/↓ to select "PARENTAL CONTROL," then press (ENTER).
The options appear.



4 Press ↑/↓ to select "ON →," then press (ENTER).
The password setting display appears.



5 Press the number buttons to enter your password, then press (ENTER).
The confirmation display appears.

6 To confirm, press the number buttons to reenter your password, then press (ENTER).
The setting is complete.

To delete an entered number, press (CLEAR).
To return to the previous display, press ↶.
To hide the visual setup menu, press (VISUAL SETUP).

Deactivating parental control

Select "OFF →" in step 4 above, then enter your password.
If parental control is deactivated, "Parental control canceled" appears.

Changing the password

Select "PASSWORD →" in step 4 above, enter your current password, enter your new password, then reenter to confirm.

Changing the area and its movie rating level

The restriction levels can be set depending on the area and its movie ratings.

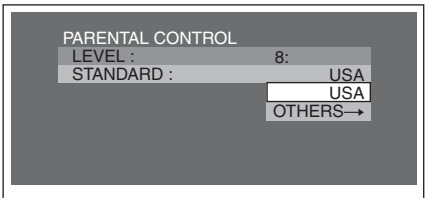
1 Press (VISUAL SETUP) while the unit is off.
The visual setup menu appears.

2 Press ↑/↓ to select (CUSTOM SETUP), then press (ENTER).
The custom setup items appear.

3 Press ↑/↓ to select "PARENTAL CONTROL," then press (ENTER).
The options appear.

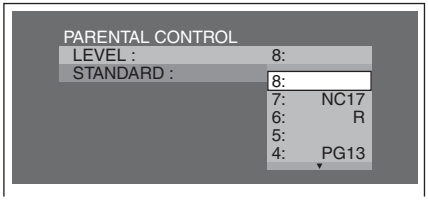
4 Press ↑/↓ to select "PLAYER →," then press (ENTER).
When parental control is already activated, the display to enter your password appears. To change the setting, enter your password, then press (ENTER).

5 Press ↑/↓ to select "STANDARD," then press (ENTER).
The options appear.



6 Press ↑/↓ to select the desired area to apply its movie ratings, then press ENTER.
The area is selected.
When you select "OTHERS →," enter the area code selecting from "Area code list" on page 57, using the number buttons.

7 Press ↑/↓ to select "LEVEL," then press ENTER.
The options appear.



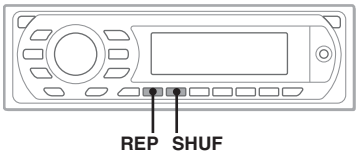
The lower the number, the stricter the restriction level.

8 Press ↑/↓ to select the desired rating, then press ENTER.
The setting is complete.

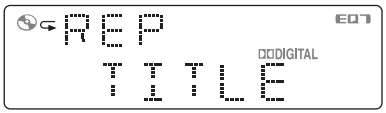
To return to the previous display, press ↩.
To hide the visual setup menu, press VISUAL SETUP.

Repeat and shuffle play

DVD VCD SA-CD CD
MP3 WMA JPEG DivX



1 During playback, press ① (REP) or ② (SHUF) on the main unit repeatedly until the desired option appears.



Repeat or shuffle play starts.

The repeat options and switching order of each disc/format are indicated below.

Disc/format	Options
DVD	**OFF** **TITLE**: Repeats the current title. **CHAPTER**: Repeats the current chapter.
VCD *1 SA-CD CD	**OFF** **TRACK**: Repeats the current track.
MP3 WMA	**OFF** **TRACK**: Repeats the current track. **ALBUM**: Repeats the current album.
JPEG	**OFF** **IMAGE**: Repeats the current image. **ALBUM**: Repeats the current album.
DivX	**OFF** **FILE**: Repeats the current video file. **ALBUM**: Repeats the current album (folder).

The shuffle options and switching order of each disc/format are indicated below.

Disc/format	Options
DVD *2	**OFF** **TITLE**: Plays chapters in current title in random order.
VCD *1 SA-CD CD	**OFF** **DISC**: Plays tracks in current disc in random order.
MP3 WMA JPEG DivX	**OFF** **ALBUM**: Plays tracks/images/video files in current album (folder) in random order.

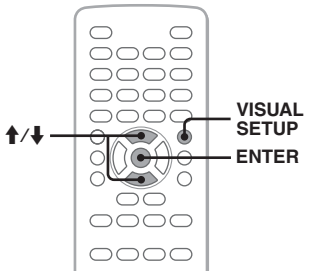
*1 *Available only when playing version 1.0/1.1 VCD, or version 2.0 VCD without PBC function.*
*2 *Excluding DVD-R/DVD-R DL/DVD-RW in VR mode.*

To return to normal play mode, select "OFF."

continue to next page →

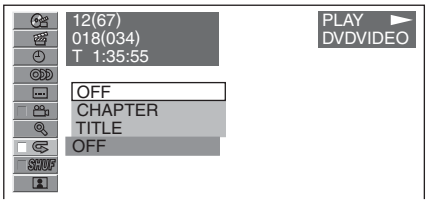
Setting from the play mode menu

DVD VCD JPEG DivX



1 During playback, press (VISUAL SETUP).
The play mode menu appears.

2 Press ↑/↓ to select [REPEAT] or [SHUF], then press (ENTER).



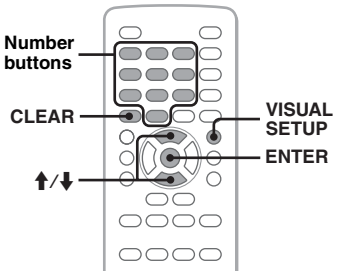
3 Press ↑/↓ to select the desired option, then press (ENTER).
Repeat or shuffle play starts.

Press (VISUAL SETUP) to hide the play mode menu.

Note
The selected play mode is canceled when the disc being played is ejected.

Direct search play

DVD VCD SA-CD C D
MP3 WMA JPEG DivX



You can directly locate a desired point by specifying the title number, chapter number, etc.

1 During playback, press the number buttons to enter an item (track, title, etc.) number, then press (ENTER).
Playback starts from the beginning of the selected point.

Setting from the play mode menu

DVD VCD JPEG DivX

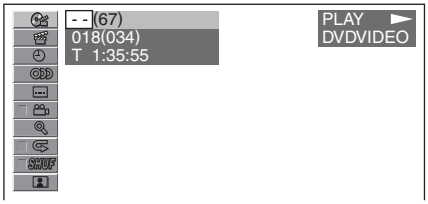
Search items differs depending on the disc/format as follows.

Disc/Format	Items
DVD	**TITLE** Starts playing from a selected title. **CHAPTER** Starts playing from a selected chapter. **TIME** Starts playing from the point determined by the input time code.
VCD *	**TRACK** Starts playing from a selected track.
JPEG	**ALBUM** Starts playing from a selected album. **IMAGE** Starts playing from a selected image.
DivX	**ALBUM** Starts playing from a selected album (folder). **FILE** Starts playing from a selected file.

* *Available only when playing VCD without PBC function.*

1 During playback, press (VISUAL SETUP).
The play mode menu appears.

2 Press ↑/↓ to select the desired item, then press (ENTER).



The number in parentheses indicates the total number of selected item.

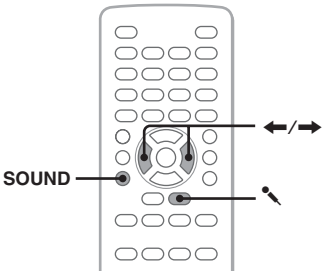
3 Press the number buttons to enter an item number or time code.
For example, to locate 2 hours, 10 minutes, and 20 seconds, just enter "21020."
To clear numbers already input, press (CLEAR).

4 Press (ENTER).
Playback starts from the selected point.

Press (VISUAL SETUP) to hide the play mode menu.

Enjoying karaoke

DVD VCD CD MP3

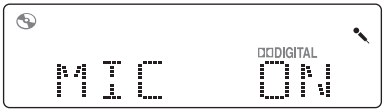


You can connect a microphone (not supplied) to the unit, and enjoy karaoke (singing along with a disc) by setting the unit to karaoke mode.
The karaoke mode options and switching order are indicated below.

MIC ON: Activates the microphone and echo effects.
MIC ON+VC: Activates the microphone and cancels the vocal sound.
MIC OFF: Cancels the karaoke mode.

Before starting, connect a microphone to the MIC input jack of the unit.

1 During playback, press repeatedly until the desired option appears.

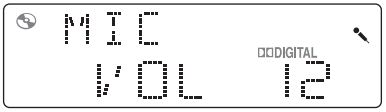


The karaoke mode is activated.
When playback is stopped, the MIC input is deactivated.

Notes
- *Some karaoke DVDs/VCDs/CDs may have the instruments on one channel and vocals on the other channel, and may ask you to select a channel (Left, Right, or Stereo). In this case, set to "MIC ON" and press (AUDIO) repeatedly to set the channel.*
- *Some karaoke DVDs/VCDs/CDs may have a control menu where you can cancel vocal sound, etc. In this case, follow the instructions of the disc.*
- *While the karaoke mode is activated, the settings of EQ7 (page 37) and HPF (page 44) are deactivated.*
- *Discs in DTS format are not supported. The sound is not output if the DTS format is selected.*

Adjusting the microphone volume

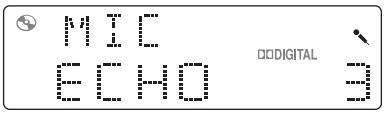
1 While the karaoke mode is activated, press (SOUND) repeatedly until "MIC VOL" appears on the main unit.



2 Press ←/→ to adjust the volume level.
The volume level is adjustable in single steps, between 0 and 20.
After 3 seconds, the setting is complete and the display returns to normal play mode.

Adjusting the echo

1 While the karaoke mode is activated, press (SOUND) repeatedly until "MIC ECHO" appears on the main unit.



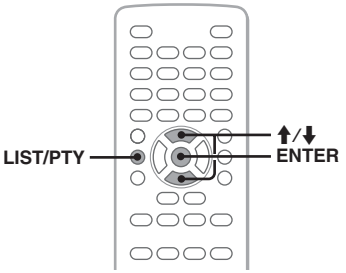
2 Press ←/→ to adjust the echo level.
The echo level is adjustable in single steps, between 1 and 6.
After 3 seconds, the setting is complete and the display returns to normal play mode.

To cancel the echo, select "MIC ECHO OFF" in step 2.

continue to next page →

With the main unit
Press the volume control dial instead of (SOUND), rotate the volume control dial instead of pressing ←/→.

Listing up tracks/images/video files — LIST

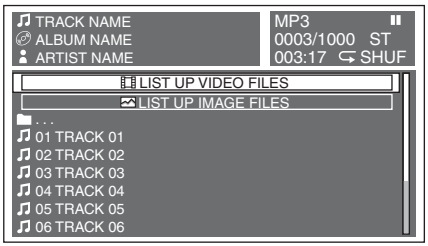


Selecting a track/image/video file

SA-CD | CD | MP3 | WMA | JPEG | DivX

You can list up albums/folders/tracks/images/video files on the monitor, and select a desired one to play.
This function is convenient especially for the disc in MP3/WMA/JPEG/DivX format containing many albums/tracks, etc.

1 During playback, press (LIST/PTY).
The list of tracks/images/video files in the current disc/album*/folder* appears.



If you want to move to the upper level, press ↑ to select the folder icon at the top of the list, then press (ENTER).*
* *Only when playing MP3/WMA/JPEG/DivX.*

2 Press ↑/↓ to select the desired track/image/video file, then press (ENTER).
Playback of the selected track/image/video file starts.

Note
The discs in the CD changer (if connected) cannot be listed up.

With the main unit
Rotate the volume control dial instead of pressing ↑/↓.

Selecting a file type

MP3 | WMA | JPEG | DivX

If the disc contains multiple file types, only the selected file type (audio/video/image) can be played. The playback priority order of file type is initially set to audio, video, then image (e.g., if the disc contains video files and image files, only video files are played). You can select the file type to list up, then select the desired file to play.

1 During playback, press (LIST/PTY).

2 Press ↑/↓ to select the file type to list up, then press (ENTER).
To list up MP3 and WMA files, select "LIST UP AUDIO FILES."
To list up DivX files, select "LIST UP VIDEO FILES."
To list up JPEG files, select "LIST UP IMAGE FILES."

3 Press ↑/↓ to select the desired file, then press (ENTER).
Playback of the selected file starts.

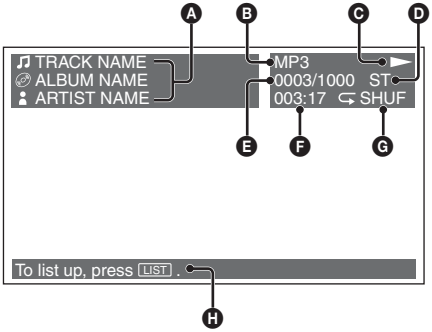
With the main unit
Rotate the volume control dial instead of pressing ↑/↓.

Viewing audio disc information

SA-CD | CD | MP3 | WMA

During audio playback, you can check the disc information on the monitor.

E.g., when playing an MP3



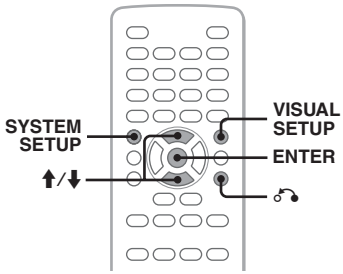
A Track number or track name
Disc name/Album name
Artist name
B Format
C Playback status (►, ❚❚, etc.)

Ⓓ Current audio channel
When playing CD/MP3/WMA, the audio channel can be changed. For details, see "Changing the audio channel" on page 25.
Ⓔ Track number/Total
Ⓕ Elapsed playback time
Ⓖ Current play mode
Ⓗ Operation assist messages

Tip
You can select a track to play using a list (page 32).

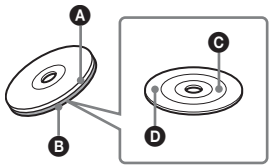
Configuring playback settings for Super Audio CD

SA-CD



Selecting a playback layer

Some Super Audio CD consists of 2 layers: Super Audio CD layer and CD layer, and Super Audio CD layer consists of 2 areas: 2-channel area and multi-channel area.



Ⓐ CD layer
A layer that is readable by a conventional CD player.
Ⓑ Super Audio CD layer
A high density signal layer.
Ⓒ 2-channel area
An area in which 2-channel stereo tracks are recorded.
Ⓓ Multi-channel area*
An area in which multi-channel (up to 5.1 channels) tracks are recorded.

* *Cannot play this area on this unit.*

If the disc contains different content on its layers, you can select a layer (to compare sound quality, for example).

The setting is configurable both from the visual setup menu (page 38) and the system setup menu (page 42).
The options for "SUPER AUDIO CD LAYER" (visual setup) and "DISC.LAYER" (system setup) are indicated below.

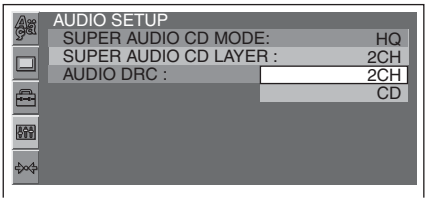
2CH: Plays 2-channel (stereo) area in the Super Audio CD layer.
CD: Plays the CD layer.

By the visual setup menu

1 Press (VISUAL SETUP) while the unit is off.
The visual setup menu appears.

2 Press ↑/↓ to select (AUDIO SETUP), then press (ENTER).
The audio setup items appear.

3 Press ↑/↓ to select "SUPER AUDIO CD LAYER," then press (ENTER).
The options appear.



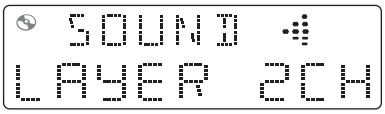
4 Press ↑/↓ to select "2CH" or "CD," then press (ENTER).
The setting is complete.

To return to the previous display, press ↩.
To hide the visual setup menu, press (VISUAL SETUP).

By the system setup menu

1 Press (SYSTEM SETUP) while the unit is off.
The system setup item appears.

2 Press ↑/↓ to select "DISC.LAYER," then press (ENTER).
The option appears.



3 Press ↑/↓ to select "2CH" or "CD," then press (ENTER).
The setting is complete.

continue to next page →

To hide the system setup display, press SYSTEM SETUP.

Note

For Super Audio CDs consisting of only a Super Audio CD layer, that layer is played regardless of setting.

Tip

The setting in visual setup will switch the setting in system setup automatically, and vice versa.

Selecting the sound quality

This unit allows you to change the sound quality of Super Audio CD playback by switching the sampling frequency.

The setting is configurable both from the visual setup menu (page 38) and the system setup menu (page 42).
The options for "SUPER AUDIO CD MODE" (visual setup) and "SA-CD MOD" (system setup) are indicated below.

HQ: Outputs at 176.4 kHz (high sound quality).
STD: Outputs at 44.1 kHz (standard CD sound quality).

By the visual setup menu

The setting procedure is the same as for setting the playback layer (page 33).
Press VISUAL SETUP, then select "AUDIO SETUP" ➔ "SUPER AUDIO CD MODE" ➔ "HQ" or "STD."

By the system setup menu

The setting procedure is the same as for setting the playback layer (page 33).
Press SYSTEM SETUP, then select "SA-CD MOD" ➔ "HQ" or "STD."

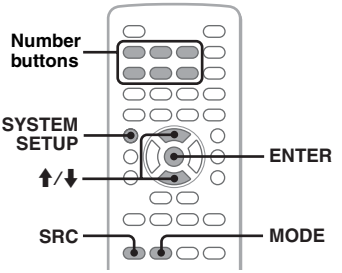
Note

When set to "HQ," EQ7 (page 37) and HPF (page 44) settings are deactivated. To activate, set to "STD."

Tip

The setting in visual setup will switch the setting in system setup automatically, and vice versa.

Storing and receiving stations



Caution

When tuning in stations while driving, use Best Tuning Memory (BTM) to prevent an accident.

Storing automatically — BTM

1 Press SRC repeatedly until "TUNER" appears on the main unit.
To change the band, press MODE repeatedly. You can select from FM1, FM2, FM3, MW or LW.

2 Press SYSTEM SETUP.
The system setup item appears.

3 Press ↑/↓ to select "BTM," then press ENTER.
The unit stores stations in order of frequency on the number buttons (1 to 6).
A beep sounds when the setting is stored.

With the main unit

Press SOURCE instead of SRC, rotate the volume control dial instead of pressing ↑/↓.

Storing manually

1 While receiving the station that you want to store, press and hold a number button (1 to 6) until "MEM" appears on the main unit.
The number button indication appears on the main unit.

Note

If you try to store another station on the same number button, the previously stored station will be replaced.

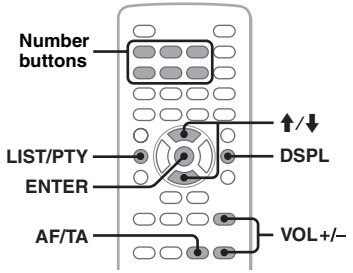
Tip

When an RDS station is stored, the AF/TA setting is also stored (page 35).

Receiving stored stations

1 Select the band, then press a number button (① to ⑥).

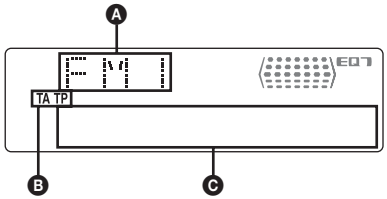
RDS



Overview

FM stations with Radio Data System (RDS) service send inaudible digital information along with the regular radio program signal.

Display items



Ⓐ Radio band, Function
Ⓑ TA/TP*1
Ⓒ Frequency*2 (Program service name), Preset number, Clock, RDS data

*1 *"TA" flashes during traffic information. "TP" lights up while such a station is received.*
*2 *While receiving the RDS station, "*" is displayed on the left of the frequency indication.*

To change display items Ⓒ, press (DSPL).

RDS services

This unit automatically provides RDS services as follows:

AF (Alternative Frequencies)
Selects and retunes the station with the strongest signal in a network. By using this function, you can continuously listen to the same program during a long-distance drive without having to retune the same station manually.

TA (Traffic Announcement)/**TP** (Traffic Program)
Provides current traffic information/programs. Any information/program received, will interrupt the currently selected source.

PTY (Program Types)
Displays the currently received program type. Also searches your selected program type.

CT (Clock Time)
The CT data from the RDS transmission sets the clock.

Notes

- *Depending on the country/region, not all RDS functions may be available.*
- *RDS will not work if the signal strength is too weak, or if the station you are tuned to is not transmitting RDS data.*

Setting AF and TA

The AF/TA settings and switching order are indicated below.

AF ON: Activates AF and deactivates TA.
TA ON: Activates TA and deactivates AF.
AF, TA ON: Activates both AF and TA.
AF, TA OFF: Deactivates both AF and TA.

1 Press (AF/TA) repeatedly until the desired setting appears.

Storing RDS stations with the AF and TA setting

You can preset RDS stations along with the AF/TA setting. If you use the BTM function, only RDS stations are stored with the same AF/TA setting.
If you preset manually, you can preset both RDS and non-RDS stations with the AF/TA setting for each.

1 Set AF/TA, then store the station with BTM or manually.

continue to next page →

Presetting the volume of traffic announcements

You can preset the volume level of the traffic announcements so as to not miss hearing them.

1 Press VOL +/– repeatedly to adjust the volume level.

2 Press and hold AF/TA until "TA" appears.

With the main unit

Rotate the volume control dial instead of pressing VOL +/–.

Receiving emergency announcements

With AF or TA on, the emergency announcements will automatically interrupt the currently selected source.

Staying with one regional program — REG

When the AF function is on: this unit's factory setting restricts reception to a specific region, so you will not be switched to another regional station with a stronger frequency.

If you leave this regional program's reception area, set "REG OFF" in system setup during FM reception (page 44).

Note

This function does not work in the UK and in some other areas.

Local Link function (UK only)

This function enables you to select other local stations in the area, even if they are not stored on your number buttons.

1 During FM reception, press a number button (1 to 6) on which a local station is stored.

2 Within 5 seconds, press again a number button of the local station.
Repeat this procedure until the local station is received.

Selecting PTY

1 Press LIST/PTY during FM reception.

The current program type name appears if the station is transmitting PTY data.

2 Press ↑/↓ to select the program type.

3 Press ENTER.
The unit searches for a station broadcasting the selected program type.

With the main unit

Rotate the volume control dial instead of pressing ↑/↓, press the volume control dial instead of ENTER.

Type of programs

NEWS (News), **AFFAIRS** (Current Affairs), **INFO** (Information), **SPORT** (Sports), **EDUCATE** (Education), **DRAMA** (Drama), **CULTURE** (Culture), **SCIENCE** (Science), **VARIED** (Varied), **POP M** (Popular Music), **ROCK M** (Rock Music), **EASY M** (Easy Listening), **LIGHT M** (Light Classical), **CLASSICS** (Classical), **OTHER M** (Other Music Type), **WEATHER** (Weather), **FINANCE** (Finance), **CHILDREN** (Children's Programs), **SOCIAL A** (Social Affairs), **RELIGION** (Religion), **PHONE IN** (Phone In), **TRAVEL** (Travel), **LEISURE** (Leisure), **JAZZ** (Jazz Music), **COUNTRY** (Country Music), **NATION M** (National Music), **OLDIES** (Oldies Music), **FOLK M** (Folk Music), **DOCUMENT** (Documentary)

Note

You cannot use this function in countries/regions where no PTY data is available.

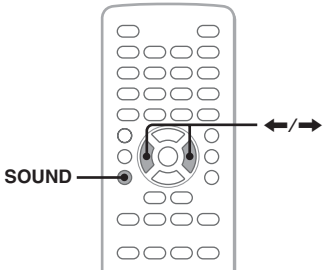
Setting CT

1 Set "CT ON" in system setup (page 43).

Notes

- *The CT function may not work even though an RDS station is being received.*
- *There might be a difference between the time set by the CT function and the actual time.*

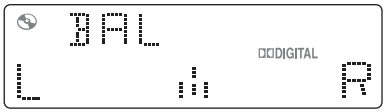
Adjusting the sound characteristics



You can adjust the sound characteristics according to your preference.
The setting items in the sound menu and switching order are indicated below.

BAL (Balance): Adjusts the sound balance between the left and right speakers.
FAD (Fader): Adjusts the relative level between the front and rear speakers.
EQ7: Selects an equalizer curve from 7 music types.

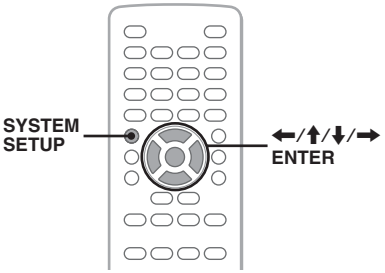
1 During playback/reception, press (SOUND) repeatedly until the desired setting item appears on the main unit.



2 Press ←/→ to adjust the level or select the desired option.
After 3 seconds, the setting is complete and the display returns to normal play/reception mode.

With the main unit
Press the volume control dial instead of (SOUND), rotate the volume control dial instead of pressing ←/→.

Customizing the equalizer curve — EQ7 Tune



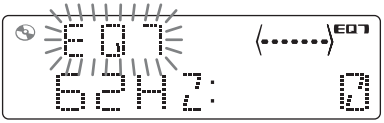
"CUSTOM" of EQ7 allows you to make your own equalizer settings. You can adjust the level of 7 different bands: 62 Hz, 157 Hz, 396 Hz, 1 kHz, 2.5 kHz, 6.3 kHz, and 16 kHz.

1 During playback/reception, press (SYSTEM SETUP).
The system setup item appears on the main unit.

2 Press ↑/↓ to select "EQ7 TUNE," then press (ENTER).

3 Press ↑/↓ to select "CUSTOM," then press (ENTER).

4 Adjust the level of each frequency.
To adjust the level, press ↑/↓.
The level is adjustable in single steps, between –8 and +8.



To switch the frequency, press ←/→.
To restore the factory-set equalizer curve, press and hold (ENTER).

5 Press (ENTER).
The setting is complete and the display returns to normal play/reception mode.

Note
EQ7 is not selectable in karaoke mode, or when "SUPER AUDIO CD MODE" in visual setup (page 41)/ "SA-CD MOD" in system setup (page 44) is set to "HQ."

Tip
Other equalizer types are also adjustable.

With the main unit
Rotate the volume control dial instead of pressing ↑/↓, press the volume control dial instead of ←/→ or (ENTER).

Settings

Various settings are configurable from the following two setup menus.

- **Visual setup menu (page 38)**
  Allows configuration of visual-related items (by the monitor).
- **System setup menu (page 42)**
  Allows configuration of system-related items (by the main unit).

Visual setup

The visual setup menu includes the following categories.

LANGUAGE SETUP (page 39)
Sets the menu, subtitle language, etc.

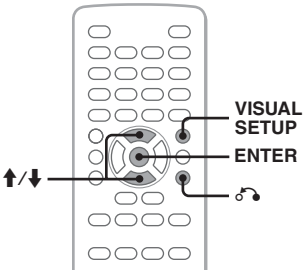
DISPLAY SETUP (page 39)
Adjusts the settings of the connected monitor.

CUSTOM SETUP (page 40)
Customizes the playback of discs.

AUDIO SETUP (page 41)
Adjusts the sound settings according to the disc.

RESET (page 41)
Resets all setting items.

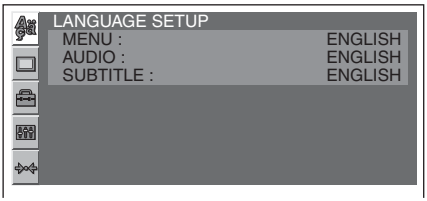
Basic operation of visual setup



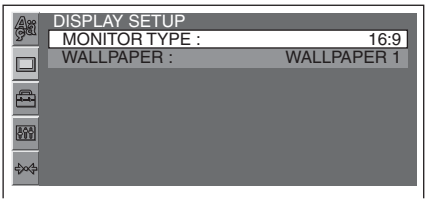
You can set items in the menu by the following procedure.

E.g., when setting the aspect ratio to "4:3 PAN SCAN."

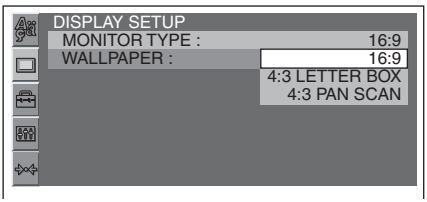
1 Press (VISUAL SETUP) while the unit is off.
The visual setup menu appears.



2 Press ↑/↓ to select (DISPLAY SETUP), then press (ENTER).
The display setup items appear.



3 Press ↑/↓ to select "MONITOR TYPE," then press (ENTER).
The options appear.



4 Press ↑/↓ to select "4:3 PAN SCAN," then press (ENTER).
The setting is complete.

To return to the previous display, press ↩.
To hide the visual setup menu, press (VISUAL SETUP).

Language setup for display or soundtrack DVD DivX

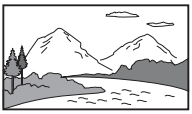
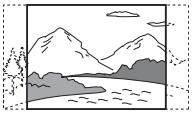
Select (LANGUAGE SETUP), then select the desired item and option below, using ↑/↓ and ENTER. For details on this procedure, see "Basic operation of visual setup" on page 38.

Item	Purpose
MENU	To change the disc's menu language.
AUDIO	To change the soundtrack language.
SUBTITLE	To change the subtitle language recorded on the disc.

Display setup

Select (DISPLAY SETUP), then select the desired item and option below, using ↑/↓ and ENTER. For details on this procedure, see "Basic operation of visual setup" on page 38.

"●" indicates the default setting.

Item	Option	Purpose
MONITOR TYPE Selects an aspect ratio suitable for the connected monitor.	**16:9 (●)** 	To display the wide picture. Suitable when connecting to a wide-screen monitor or a monitor with a wide mode function.
	4:3 LETTER BOX 	To display a wide picture with bands on the upper and lower positions of the screen. Suitable when connecting to a 4:3 screen monitor.
	4:3 PAN SCAN 	To display a wide picture on the entire screen and automatically cut off the portions that do not fit.
WALLPAPER	**WALLPAPER 1 (●), 2, 3**	To select the design of wallpaper.

Note

Depending on the disc, "4:3 LETTER BOX" may be selected automatically instead of "4:3 PAN SCAN," and vice versa.

Custom setup

Select (CUSTOM SETUP), then select the desired item and option below, using ↑/↓ and ENTER. For details on this procedure, see "Basic operation of visual setup" on page 38.

Follow the page reference for details. "●" indicates the default setting.

Item	Option	Purpose
PARENTAL CONTROL (page 28) DVD *1 Sets the playback restrictions to not play inappropriate discs or scenes.	**OFF → (●)**	To deactivate parental control.
	ON →	To activate parental control.
	PLAYER →	To set the restriction standard and its level.
	PASSWORD →	To set a new 4-digit password.
DivX VOD DivX Displays the registration code for this unit. For more information, visit the website below: http://www.divx.com/vod	**Done**	To close the display.
SLIDE SHOW TIME JPEG	**5 sec. (●), 10 sec., 20 sec., 40 sec., 60 sec.**	To select the slide show interval.
	FIXED	To deactivate the slide show.
MULTI-DISC RESUME DVD *2 VCD	**ON (●)**	To store the resume settings in memory for up to 5 discs. (The settings remain in memory even if you set to "OFF.")
	OFF	To not store the resume settings in memory. Resume playback is available only for the current disc in the unit.
PLAY LIST PLAY DVD (For DVD-R/DVD-R DL/DVD-RW in VR mode only)	**ORIGINAL (●)**	To play originally recorded titles.
	PLAY LIST	To play edited play list.
PICTURE EQ (page 27) DVD VCD JPEG DivX Selects the setting option to show in the play mode menu.	**AUTO (●)**	To switch the night time/day time use options automatically according to the dimmer setting in system setup (page 43).
	LIGHT OFF	To show the day time use options.
	LIGHT ON	To show the night time use options.

*1 *Excluding DVD-R/DVD-R DL/DVD-RW in VR mode.*
*2 *DVD VIDEO only.*

Note
If parental control is applied, the resume playback will not work. In this case, playback starts from the beginning of the disc when it is inserted.

Audio setup

Select (AUDIO SETUP), then select the desired item and option below, using ↑/↓ and ENTER. For details on this procedure, see "Basic operation of visual setup" on page 38.

Follow the page reference for details. "●" indicates the default setting.

Item	Option	Purpose
SUPER AUDIO CD MODE (page 34) SA-CD Selects the sound quality for Super Audio CD playback.	**HQ (●)**	To have high sound quality.
	STD	To have standard sound quality.
SUPER AUDIO CD LAYER (page 33) SA-CD Selects the playback layer (area) of a Super Audio CD.	**2CH (●)**	To play 2-channel (stereo) area in the Super Audio CD layer.
	CD	To play CD layer (if contained).
AUDIO DRC DVD * Makes the sound clear when the volume is low. Only for a DVD conforming to Audio DRC (Dynamic Range Control).	**STANDARD (●)**	To select the standard setting.
	WIDE RANGE	To obtain the feeling of being at a live performance.

* *Excluding DVD-R/DVD-R DL/DVD-RW in VR mode.*

Resetting all settings

All settings (excluding parental control setting) in visual setup can be reset.
Select (RESET), then "YES" using ↑/↓ and ENTER.
For details on this procedure, see "Basic operation of visual setup" on page 38.

Note

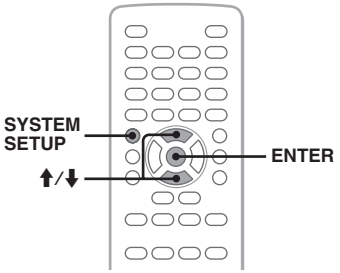
Do not power off the unit while resetting, as it takes a few seconds to complete.

System setup

The system setup menu includes the following categories.

- **SET**: General settings (page 43)
- **DSPL**: Display settings (page 43)
- **R/M**: Receive mode settings (page 44)
- **SOUND**: Sound settings (page 44)

Basic operation of system setup

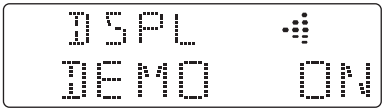


You can set items in the menu by the following procedure.

E.g., when setting the demonstration

1 Press (SYSTEM SETUP) while the unit is off.
The system setup item appears on the main unit.

2 Press ↑/↓ to select "DEMO," then press (ENTER).
The option appears.



3 Press ↑/↓ to select "ON" or "OFF," then (ENTER).
The setting is complete.

To hide the system setup display, press (SYSTEM SETUP).

With the main unit
Use the volume control dial to select items/options and confirm.

Follow the page reference for details. "●" indicates the default setting.

SET (Setup)

Item	Option	Purpose	Unit status
CLOCK ADJ (Clock Adjust) (page 45)	–	–	Any status.
CT (Clock Time) (page 35, 36)	**ON**	To activate the CT function.	
	OFF (●)	To deactivate the CT function.	
BEEP	**ON (●)**	To activate the operation sound.	
	OFF	To deactivate the operation sound.	
RM (Rotary Commander) Changes the operative direction of the rotary commander controls.	**NORM (●)**	To use in the factory-set position.	
	REV	To use on the right side of the steering column.	
A.OFF (Auto Off) Shuts off automatically after a desired time when the unit is off.	**NO (●)**	To deactivate the Auto Off function.	
	30S, 30M, 60M	To select the desired time.	

DSPL (Display)

Item	Option	Purpose	Unit status
M.DSPL (Motion Display) Selects the Motion Display mode.	**SA (●)**	To show moving patterns and spectrum analyzer.	During playback/ radio reception.
	ON	To show moving patterns.	
	OFF	To deactivate the Motion Display.	
DEMO (Demonstration)	**ON (●)**	To activate the demonstration.	Unit off.
	OFF	To deactivate the demonstration.	
DIM (Dimmer) Changes the display brightness.	**ON**	To dim the display.	Any status.
	OFF (●)	To deactivate the dimmer.	
A.SCRL (Auto Scroll) Scrolls long items automatically.	**ON (●)**	To scroll.	During playback.
	OFF	To not scroll.	

continue to next page →

R/M (Receive mode)

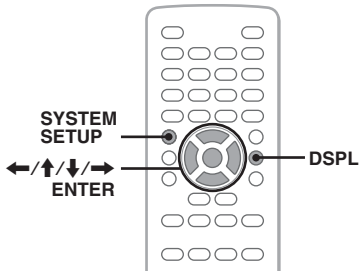
Item	Option	Purpose	Unit status
LOCAL (Local Seek Mode)	**ON**	To only tune into stations with stronger signals.	During radio reception.
	OFF (●)	To tune normal reception.	
MONO (Monaural Mode) Selects monaural reception mode to improve poor FM reception.	**ON**	To hear stereo broadcast in monaural.	During FM reception.
	OFF (●)	To hear stereo broadcast in stereo.	
REG (Regional) (page 36)	**ON (●)**	To stay with one regional program.	
	OFF	To deactivate when leaving the program's reception area.	
BTM (Best Tuning Memory) (page 34)	–	–	During radio reception.

SOUND

Item	Option	Purpose	Unit status
EQ7 TUNE (page 37)	–	–	During playback*/ radio reception.
HPF (High Pass Filter) Selects the front/rear speaker cut-off frequency.	**OFF (●)**	To not cut out the frequency.	
	80HZ, 120HZ	To select the frequency.	
AUX-LVL (AUX Level) (page 46)	**(–6 ~ +18 dB) ●: 0**	To select the level.	During AUX playback.
DVD-LVL (DVD Level) (page 26)	**(–10 ~ +10 dB) ●: ADJST OFF**	To select the level.	During disc playback.
DISC.LAYER (page 33) Selects the playback layer (area) of a Super Audio CD.	**2CH (●)**	To play 2-channel (stereo) area in the Super Audio CD layer.	Unit off.
	CD	To play CD playback layer (if contained).	
SA-CD MOD (page 34) Selects the sound quality for Super Audio CD playback.	**HQ (●)**	To have high sound quality.	
	STD	To have standard sound quality.	

* *Unavailable during karaoke mode or when "SA-CD MOD" is set to "HQ."*

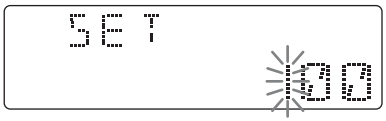
Setting the clock



The clock uses a 24-hour indication.

1 Press (SYSTEM SETUP).
The system setup item appears on the main unit.

2 Press ↑/↓ to select "CLOCK ADJ," then press (ENTER).
The hour indication flashes.



3 Press ↑/↓ to set the hour and minute.
To move the digital indication, press ←/→.

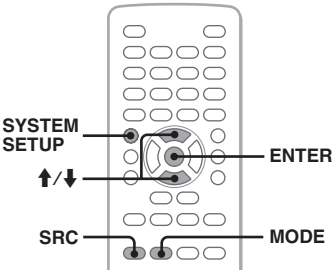
4 Press (ENTER).
The setting is complete.

To show the clock during playback, press (DSPL) repeatedly until it appears.

With the main unit
Rotate the volume control dial instead of pressing ↑/↓, press the volume control dial instead of ←/→ or (ENTER).

Using Optional Equipment

Auxiliary equipment



You can connect auxiliary devices to the unit, and listen on your car speakers.
Up to 2 devices can be connected, one to the AUX input jack (stereo mini jack) on the front, and the other to the BUS AUDIO IN/AUX AUDIO IN terminals* on the rear. The volume level is adjustable for any difference between the unit and the auxiliary device.

* *Unavailable when another optional device is connected to the BUS CONTROL IN terminal. To connect both an auxiliary device and optional device, use the optional AUX-IN selector.*

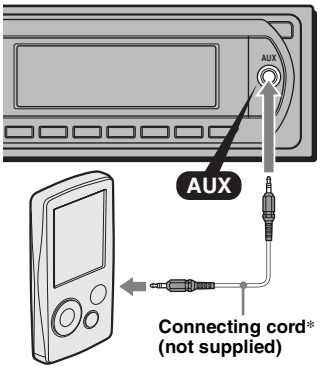
Connecting an auxiliary device

1 Turn off the auxiliary device.

2 Turn down the volume on the unit.

3 Connect to the unit.

On the front
Connect to the AUX input jack.



* *Be sure to use a straight type plug.*

On the rear
Connect to the BUS AUDIO IN/AUX AUDIO IN terminals.

continue to next page →

Selecting an auxiliary device

1 Press (SRC) repeatedly until "AUX" appears on the main unit.

2 Press (MODE) to select "FRONT-IN" or "REAR-IN."
Operate by the auxiliary device itself.

Adjusting the volume level

Be sure to adjust the volume of each connected device before playback.

1 Turn down the volume on the unit.

2 Press (SRC) repeatedly until "AUX" appears on the main unit.
If two auxiliary devices are connected, select the device to adjust its volume by pressing (MODE).

3 Start playback of the auxiliary device at a moderate volume.

4 Set your usual listening volume on the unit.

5 Press (SYSTEM SETUP).

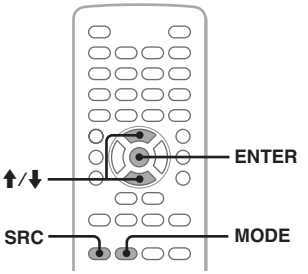
6 Press ↑/↓ to select "AUX-LVL," then press (ENTER).

7 Press ↑/↓ to adjust the input level.
The input level is adjustable in single steps, between –6 and +18.

8 Press (ENTER).
The setting is complete.

With the main unit
Press (SOURCE) instead of (SRC), rotate the volume control dial instead of pressing ↑/↓.

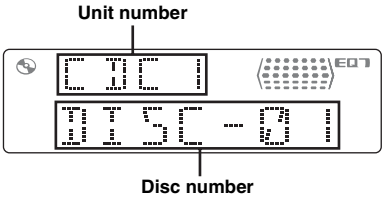
CD changer



Selecting the changer

1 Press (SRC) repeatedly until "CDC" appears.

2 Press (MODE) repeatedly until the desired changer appears.



Playback starts.

With the main unit
Press (SOURCE) instead of (SRC).

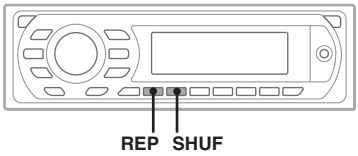
Skipping albums and discs

1 During playback, press ↑/↓.

To skip	Press ↑/↓
album	and release (hold for a moment).
album continuously	within 2 seconds of first releasing.
discs	repeatedly.
discs continuously	then, press again within 2 seconds and hold.

With the main unit
Use (3)/(4) (ALBUM –/+) instead of ↑/↓.

Repeat and shuffle play



1 During playback, press (1) (REP) or (2) (SHUF) on the main unit repeatedly until the desired setting appears.

Select	To play
REP DISC*	disc repeatedly.
SHUF CHANGER*	tracks in the changer in random order.

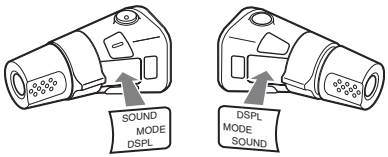
* *When one or more CD changers are connected.*

To return to normal play mode, select "REP OFF" or "SHUF OFF."

Rotary commander RM-X4S

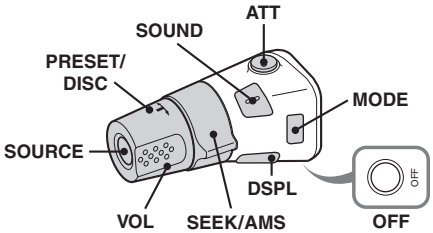
Attaching the label

Attach the indication label depending on how you mount the rotary commander.



Location of controls

The corresponding buttons on the rotary commander control the same functions as those on the card remote commander or the main unit.

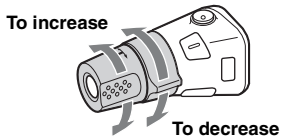


The following controls on the rotary commander require a different operation from the unit.

- **PRESET/DISC control**
  The same as ↑/↓ on the card remote commander or (3)/(4) (ALBUM –/+) on the main unit (push in and rotate).
- **VOL (volume) control**
  The same as (VOL) +/– on the card remote commander or the volume control dial on the main unit (rotate).
- **SEEK/AMS control**
  The same as ⏮/◀◀/▶▶/⏭ on the card remote commander or (SEEK) –/+ on the main unit (rotate, or rotate and hold).

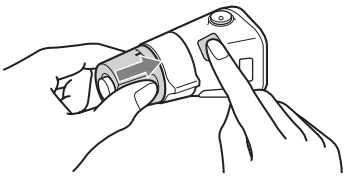
Changing the operative direction

The operative direction of the controls is factory-set as shown below.



If you need to mount the rotary commander on the right hand side of the steering column, you can reverse the operative direction.

1 While pushing the VOL control, press and hold (SOUND).



Precautions

- If your car has been parked in direct sunlight, allow the unit to cool off before operating it.
- Power antenna (aerial) will extend automatically while the unit is operating.

Moisture condensation

On a rainy day or in a very damp area, moisture condensation may occur inside the lenses and display of the unit. Should this occur, the unit will not operate properly. In such a case, remove the disc and wait for about an hour until the moisture has evaporated.

To maintain high sound quality

Be careful not to splash juice or other soft drinks onto the unit or discs.

Notes on discs

- To keep a disc clean, do not touch its surface. Handle the disc by its edge.
- Keep your discs in their cases or disc magazines when not in use.
- Do not subject discs to heat/high temperature. Avoid leaving them in a parked car or on a dashboard/rear tray.
- Do not attach labels, or use discs with sticky ink/residue. Such discs may stop spinning when used, causing a malfunction, or may ruin the disc.

- Do not use any discs with labels or stickers attached.
  The following malfunctions may result from using such discs:
  – Inability to eject a disc (due to a label or sticker peeling off and jamming the eject mechanism).
  – Inability to read audio data correctly (e.g., playback skipping, or no playback) due to heat shrinking of a sticker or label causing a disc to warp.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this unit. Attempting to do so may damage the unit. Do not use such discs.
- Before playing, clean the discs with a commercially available cleaning cloth. Wipe each disc from the center out. Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for analog discs.

Note on playback operations of DVDs and VCDs

Some playback operations of DVDs and VCDs may be intentionally set by software producers. Since this unit plays DVDs and VCDs according to the disc contents the software producers designed, some playback features may not be available. Also, refer to the instructions supplied with the DVDs or VCDs.

Notes on DATA CDs and DATA DVDs

- Some DATA CDs/DATA DVDs (depending on the equipment used for its recording, or the disc condition) may not play on this unit.
- Finalization is required for some discs (page 48).
- The unit is compatible with the following standards.
  For DATA CDs
  – ISO 9660 level 1/level 2 format, Joliet/Romeo in the expansion format
  – Multi Session
  For DATA DVDs
  – UDF Bridge format (combined UDF and ISO 9660)
  – Multi Border
- The maximum number of:
  – folders (albums): 256 (including root and empty folders).
  – files (tracks/images/videos) and folders contained in a disc: 2,000 (if a folder/file names contain many characters, this number may become less than 2,000).
  – displayable characters for a folder/file name: 64 (Joliet/Romeo).

Notes on finalizing discs

The following discs are required to be finalized to play on this unit.

- DVD-R/DVD-R DL (in video mode/VR mode)
- DVD-RW in video mode
- DVD+R/DVD+R DL
- CD-R
- CD-RW

The following discs can be played without finalization.

- DVD+RW – automatically finalized.
- DVD-RW in VR mode – finalization not required.

For details, see the manual supplied with the disc.

Notes on Multi Session CDs/Multi Border DVDs

This unit can play Multi Session CDs/Multi Border DVDs under the following conditions. Note that the session must be closed and the disc must be finalized.

- When CD-DA (Compact Disc Digital Audio) is recorded in the first session:
  The unit recognizes the disc as CD-DA and only CD-DA of the first session is played, even if an other format (e.g., MP3) is recorded in other sessions.
- When CD-DA is recorded other than in the first session:
  The unit recognizes the disc as a DATA CD or DATA DVD, and all CD-DA sessions are skipped.
- When an MP3/WMA/JPEG/DivX is recorded:
  Only the sessions containing the selected file type (audio/video/image)* are played (if CD-DA or other data exists in other sessions, they are skipped).

* *For details on how to select the file type, see page 32.*

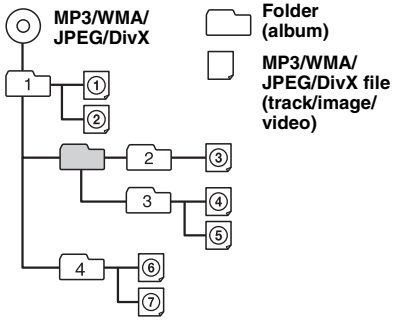
Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

Note on DualDiscs

A DualDisc is a two sided disc product which mates DVD recorded material on one side with digital audio material on the other side. However, since the audio material side does not conform to the Compact Disc (CD) standard, playback on this product is not guaranteed.

Playback order of MP3/WMA/JPEG/DivX® files



About MP3 files

- MP3, which stands for MPEG-1 Audio Layer-3, is a music file compression format standard. It compresses audio CD data to approximately 1/10 of its original size.
- ID3 tag versions 1.0, 1.1, 2.2, 2.3 and 2.4 apply to MP3 only. ID3 tag is 15/30 characters (1.0 and 1.1), or 63/126 characters (2.2, 2.3 and 2.4).
- When naming an MP3 file, be sure to add the file extension ".mp3" to the file name.
- During playback or fast-forward/reverse of a VBR (variable bit rate) MP3 file, elapsed playback time may not display accurately.

Note on MP3

If you play a high-bit-rate MP3, such as 384 kbps, sound may be intermittent.

About WMA files

- WMA, which stands for Windows Media Audio, is a music file compression format standard. It compresses audio CD data to approximately 1/22* of its original size.
- WMA tag is 63 characters.
- When naming a WMA file, be sure to add the file extension ".wma" to the file name.
- During playback or fast-forward/reverse of a VBR (variable bit rate) WMA file, elapsed playback time may not display accurately.

* *only for 64 kbps*

Note on WMA

Playback of the following WMA files is not supported.
– lossless compression
– copyright-protected

About JPEG files

- JPEG, which stands for Joint Photographic Experts Group, is an image file compression format standard. It compresses still images approximately 1/10 to 1/100 of original size.
- When naming a JPEG file, be sure to add the file extension ".jpg" to the file name.

Note on JPEG

Playback of the following JPEG files is not supported.
– lossless compression
– copyright-protected

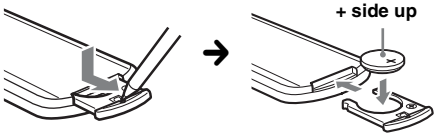
About DivX® files

DivX®, which stands for Digital Video Express, is a digital video file compression format standard developed by DivX, Inc.

Maintenance

Replacing the lithium battery of the card remote commander

Under normal conditions, the battery will last approximately 1 year. (The service life may be shorter, depending on the conditions of use.) When the battery becomes weak, the range of the card remote commander becomes shorter. Replace the battery with a new CR2025 lithium battery. Use of any other battery may present a risk of fire or explosion.



Notes on the lithium battery

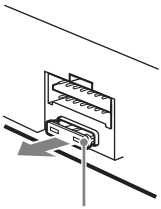
- *Keep the lithium battery out of the reach of children. Should the battery be swallowed, immediately consult a doctor.*
- *Wipe the battery with a dry cloth to assure a good contact.*
- *Be sure to observe the correct polarity when installing the battery.*
- *Do not hold the battery with metallic tweezers, otherwise a short-circuit may occur.*

WARNING

Battery may explode if mistreated.
Do not recharge, disassemble, or dispose of in fire.

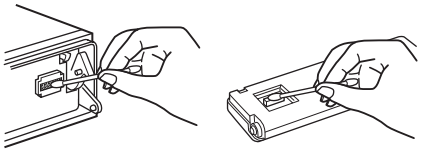
Fuse replacement

When replacing the fuse, be sure to use one matching the amperage rating stated on the original fuse. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In such a case, consult your nearest Sony dealer.



Cleaning the connectors

The unit may not function properly if the connectors between the unit and the front panel are not clean. In order to prevent this, detach the front panel (page 15) and clean the connectors with a cotton swab. Do not apply too much force. Otherwise, the connectors may be damaged.



Main unit **Back of the front panel**

Notes

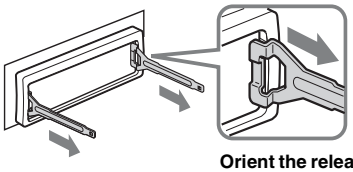
- *For safety, turn off the ignition before cleaning the connectors, and remove the key from the ignition switch.*
- *Never touch the connectors directly with your fingers or with any metal device.*

Removing the unit

1 Remove the protection collar.

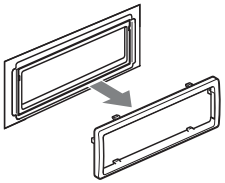
❶ Detach the front panel (page 15).

❷ Engage the release keys together with the protection collar.



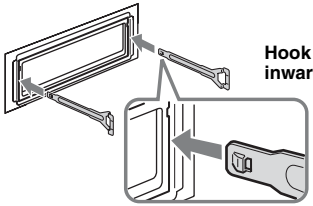
Orient the release keys as shown.

❸ Pull out the release keys to remove the protection collar.

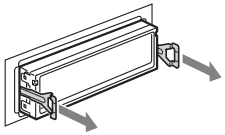


2 Remove the unit.

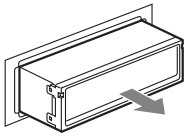
❶ Insert both release keys simultaneously until they click.



❷ Pull the release keys to unseat the unit.



❸ Slide the unit out of the mounting.



Specifications

System

Laser: Semiconductor laser
Signal format system: PAL

DVD/CD Player section

Signal-to-noise ratio: 120 dB
Frequency response: 10 – 20,000 Hz
Wow and flutter: Below measurable limit
Harmonic distortion: 0.01 %

Tuner section

FM

Tuning range: 87.5 – 108.0 MHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 10.7 MHz/450 kHz
Usable sensitivity: 9 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz: 0.5 % (stereo), 0.3 % (mono)
Separation: 35 dB at 1 kHz
Frequency response: 30 – 15,000 Hz

MW/LW

Tuning range:
MW: 531 – 1,602 kHz
LW: 153 – 279 kHz
Antenna (aerial) terminal:
External antenna (aerial) connector
Intermediate frequency: 10.7 MHz/450 kHz
Sensitivity: MW: 30 µV, LW: 40 µV

Power amplifier section

Outputs: Speaker outputs (sure seal connectors)
Speaker impedance: 4 – 8 ohms
Maximum power output: 52 W × 4 (at 4 ohms)

General

Outputs:
Video output terminal
Rear audio output terminals
Power antenna (aerial) relay control terminal
Power amplifier control terminal
Inputs:
BUS audio input/AUX audio input terminals
BUS control input terminal
Remote controller input terminal
Antenna (aerial) input terminal
Parking break control terminal
Microphone input terminal
AUX input jack (stereo mini jack)
Power requirements: 12 V DC car battery (negative ground (earth))
Dimensions: Approx. 178 × 50 × 181 mm ($7\ ^1/_8 \times 2 \times 7\ ^1/_4$ in) (w/h/d)
Mounting dimensions: Approx. 182 × 53 × 181 mm ($7\ ^1/_4 \times 2\ ^1/_8 \times 7\ ^1/_4$ in) (w/h/d)
Mass: Approx. 1.4 kg (3 lb 2 oz)
Supplied accessories:
Card remote commander: RM-X166
Parts for installation and connections (1 set)
Optional accessories/equipment:
Rotary commander: RM-X4S
BUS cable (supplied with an RCA pin cord): RC-61 (1 m), RC-62 (2 m)
CD changer (10 discs): CDX-757MX
CD changer (6 discs): CDX-T70MX, CDX-T69
Source selector: XA-C40
AUX-IN selector: XA-300
Interface adaptor for iPod: XA-120IP

Your dealer may not handle some of the above listed accessories. Please ask the dealer for detailed information.

US and foreign patents licensed from Dolby Laboratories.

MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson.

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Note

This unit cannot be connected to a digital preamplifier or an equalizer which is Sony BUS system compatible.

Design and specifications are subject to change without notice.

continue to next page →

- Halogenated flame retardants are not used in the certain printed wiring boards.
- Halogenated flame retardants are not used in cabinets.
- Packaging cushions are made from paper.

Troubleshooting

The following checklist will help you remedy problems you may encounter with your unit. Before going through the checklist below, check the connection and operating procedures.

> Depending on the connected monitor, the unit may take a few seconds to turn off after turning the ignition off. This is not a malfunction.

General

No power is being supplied to the unit.
- Check the connection. If everything is in order, check the fuse.
- If the unit is turned off and the display disappears, it cannot be operated with the remote commander.
  → Turn on the unit.

The power antenna (aerial) does not extend.
The power antenna (aerial) does not have a relay box.

No beep sound.
- The beep sound is canceled (page 43).
- An optional power amplifier is connected and you are not using the built-in amplifier.

The contents of the memory have been erased.
- The RESET button has been pressed.
  → Store again into the memory.
- The power supply lead or battery has been disconnected.
- The power supply lead is not connected properly.

Stored stations and correct time are erased.
The fuse has blown.
Makes noise when the position of the ignition is switched.
The leads are not matched correctly with the car's accessory power connector.

The display disappears from/does not appear in the display window.
- The dimmer is set "DIM ON" (page 43).
- The display disappears if you press and hold (OFF).
  → Press and hold (OFF) on the unit until the display appears.
- The connectors are dirty (page 50).

The Auto Off function does not operate.
The unit is turned on. The Auto Off function activates after turning off the unit.
→ Turn off the unit.

Card remote commander operation is not possible.
Make sure the insulation film has been removed (page 14).

Picture

There is no picture/picture noise occurs.
- A connection has not been made correctly.
- Check the connection to the connected equipment, and set the input selector of the equipment to the source corresponding to this unit.
- Defective or dirty disc.
- Installation is not correct.
  → Install the unit at an angle of less than 45° in a sturdy part of the car.
- The monitor is connected to the AUDIO/VIDEO OUT, and the parking cord (light green) is not connected to the parking brake switch cord, or the parking brake is not applied.

Picture does not fit in the screen.
The aspect ratio is fixed on the DVD.

Sound

There is no sound/sound skips/sound cracks.
- A connection has not been made correctly.
- Check the connection to the connected equipment, and set the input selector of the equipment to the source corresponding to this unit.
- Defective or dirty disc.
- Installation is not correct.
  → Install the unit at an angle of less than 45° in a sturdy part of the car.
- The MP3 file sampling rate is not 16, 22.05, 24, 32, 44.1, or 48 kHz.
- The WMA file sampling rate is not 32, 44.1, or 48 kHz.
- The MP3 file bit rate is not 8 to 384 kbps.
- The WMA file bit rate is not 32 to 384 kbps.
- The unit is in pause/reverse/fast-forward mode.
- The settings for the outputs are not made correctly.
- The DVD output level is too low (page 26).
- The volume is too low.
- The ATT function is activated.
- The position of the fader control "FAD" is not set for a 2-speaker system.
- The CD changer is incompatible with the disc (MP3/WMA).
  → Play back with this unit.
- Unsupported format (such as DTS).
  → Check if the format is supported by this unit (page 8).

Sound is noisy.
- Keep cords and cables away from each other.
- If an Super Audio CD is played and "SUPER AUDIO CD MODE"/ "SA-CD MOD" is set to "HQ," instead set to "STD" (page 41, 44).

Disc operation

The disc cannot be loaded.
- Another disc is already loaded.
- The disc has been forcibly inserted upside down or in the wrong way.

The disc does not play back.
- Defective or dirty disc.
- The disc is not applicable.
- The DVD is not applicable due to the region code.
- The disc is not finalized (page 48).
- The disc format and file version are incompatible with this unit (page 8, 48).
- Press ⏏ to remove the disc.

MP3/WMA/JPEG/DivX files do not play back.
- Recording was not performed according to the ISO 9660 level 1 or level 2, the Joliet or Romeo in the expansion format (DATA CD), or the UDF Bridge format (DATA DVD) (page 48).
- The file extension is incorrect (page 49).
- Files are not stored in MP3/WMA/JPEG/DivX format.
- If the disc contains multiple file types, only the selected file type (audio/video/image) can be played.
  → Select the appropriate file type using the list (page 32).

MP3/WMA/JPEG/DivX files take longer to play back than others.

The following discs take a longer time to start playback.
– a disc recorded with a complicated tree structure.
– a disc recorded in Multi Session/Multi Border.
– a disc to which data can be added.

The disc does not start playing from the beginning.

Resume playback or multi-disc resume playback (page 40) has taken effect.

Certain functions cannot be performed.

Depending on the disc, you may not be able to perform operations such as stop, search, or repeat/shuffle play. For details, see the manual supplied with the disc.

The soundtrack/subtitle language or angle cannot be changed.
- Use the DVD menu instead of the direct selection button on the card remote commander (page 17).
- Multilingual tracks, multilingual subtitles, or multi-angles are not recorded on the DVD.
- The DVD prohibits changing.

The display items do not scroll.
- For discs with very many characters, those may not scroll.
- "A.SCRL" is set to "OFF."
  → Set "A.SCRL ON" (page 43).

The operation buttons do not function.
The disc will not eject.

Press the RESET button (page 14).

You forgot the password for parental control.

Enter "5776" in the password input display to unlock (page 28).

Radio reception

The stations cannot be received.
The sound is hampered by noises.
- Connect a power antenna (aerial) control lead (blue) or accessory power supply lead (red) to the power supply lead of a car's antenna (aerial) booster (only when your car has built-in FM/MW/LW antenna (aerial) in the rear/side glass).
- Check the connection of the car antenna (aerial).
- The auto antenna (aerial) will not go up.
  → Check the connection of the power antenna (aerial) control lead.
- Check the frequency.

Preset tuning is not possible.
- Store the correct frequency in the memory.
- The broadcast signal is too weak.

Automatic tuning is not possible.
- Setting of the local seek mode is not correct.
  → Tuning stops too frequently:
  Set "LOCAL ON" (page 44).
  → Tuning does not stop at a station:
  Set "MONO ON" (page 44).
- The broadcast signal is too weak.
  → Perform manual tuning.

During FM reception, the "ST" indication flashes.
- Tune in the frequency accurately.
- The broadcast signal is too weak.
  → Set "MONO ON" (page 44).

An FM program broadcast in stereo is heard in monaural.

The unit is in monaural reception mode.
→ Set "MONO OFF" (page 44).

RDS

The SEEK starts after a few seconds of listening.

The station is non-TP or has weak signal.
→ Deactivate TA (page 35).

No traffic announcements.
- Activate TA (page 35).
- The station does not broadcast any traffic announcements despite being TP.
  → Tune in another station.

PTY displays "- - - - - - - -."
- The current station is not an RDS station.
- RDS data has not been received.
- The station does not specify the program type.

Error displays/Messages

On the main unit

ERROR[*1]
- The disc is dirty or inserted upside down.[*2]
  → Clean or insert the disc correctly.
- A blank disc has been inserted.
- The disc cannot play due to a problem.
  → Insert another disc.
- The disc is not compatible with this unit.
  → Insert a compatible disc.
- Press ⏏ to remove the disc.

FAILURE
The connection of speakers/amplifiers is incorrect.
→ See the supplied installation/connections manual to check the connection.

LOAD
The changer is loading the disc.
→ Wait until loading is complete.

L. SEEK +/–
The local seek mode is on during automatic tuning.

NO AF
There is no alternative frequency for the current station.
→ Press I◀◀ ◀◀/▶▶ ▶▶I while the program service name is flashing. The unit starts searching for another frequency with the same PI (Program Identification) data ("PI SEEK" appears).

NO DISC
The disc is not inserted in the CD changer.
→ Insert discs in the changer.

NO INFO
Text information is not written in the MP3/WMA/JPEG/DivX files.

NO MAGAZINE
The disc magazine is not inserted in the CD changer.
→ Insert the magazine in the changer.

NO MUSIC
The disc is not a music file.
→ Insert a music CD in this unit or MP3 playable changer.

NO NAME
A disc/album/folder/track/image/video name is not written in the file.

NOT READ
The disc information has not been read by the unit.
→ Load the disc, then select it on the list.

NO TP
The unit will continue searching for available TP stations.

OFFSET
There may be an internal malfunction.
→ Check the connection. If the error indication remains on in the display, consult your nearest Sony dealer.

READ
The unit is reading all file/album (folder) information on the disc.
→ Wait until reading is complete and playback starts automatically. Depending on the disc structure, it may take more than a minute.

RESET
The unit and CD changer cannot be operated due to a problem.
→ Press the RESET button (page 14).

"▁ ▁ ▁ ▁" or "▔ ▔ ▔ ▔"
During reverse or fast-forward, you have reached the beginning or the end of the disc and you cannot go any further.

"▁"
The character cannot be displayed with the unit.

*1 *If an error occurs during playback, the disc number does not appear in the display.*
*2 *The disc number of the disc causing the error appears in the display.*

On the monitor

Playback prohibited by region code.
The DVD playback is prohibited due to the different region code.

Cannot play this disc.
- The disc is incompatible with this unit.
- The disc is not finalized.

No playable data.
The disc does not contain playable data.

Cannot read this disc.
- The unit cannot read the data due to some problem.
- The data is damaged or corrupted.

Please press RESET.
The unit cannot operate due to some problem.
→ Press the RESET button (page 14).

If these solutions do not help improve the situation, consult your nearest Sony dealer.
If you take the unit to be repaired because of disc playback trouble, bring the disc that was used at the time the problem began.

Glossary

Album
Section of a music piece or an image on a DATA CD/DVD containing MP3/WMA audio tracks or JPEG files.

Chapter
Subdivision of a title on a DVD. A title is composed of several chapters.

DivX®
Digital video technology created by DivX, Inc. Videos encoded with DivX technology are among the highest quality with a relatively small file size.

Dolby Digital
Digital audio compression technology developed by Dolby Laboratories. This technology conforms to 5.1-channel surround sound. The rear channel is stereo and there is a discrete subwoofer channel in this format. Dolby Digital provides the same 5.1 discrete channels of high quality digital audio found in Dolby Digital cinema audio systems. Good channel separation is realized because all of the channel data are recorded discretely and little deterioration is realized because all channel data processing is digital.

DVD
A disc that contains up to 8 hours of moving pictures even though its diameter is the same as a CD.
The data capacity of a single-layer and single-sided DVD is 4.7 GB (Giga Byte), which is 7 times that of a CD. The data capacity of a double-layer and single-sided DVD is 8.5 GB, a single-layer and double-sided DVD is 9.4 GB, and double-layer and double-sided DVD is 17 GB.
The picture data uses the MPEG 2 format, one of the worldwide standards of digital compression technology. The picture data is compressed to about 1/40 (average) of its original size. The DVD also uses a variable rate coding technology that changes the data to be allocated according to the status of the picture. Audio information is recorded in a multi-channel format, such as Dolby Digital, allowing you to enjoy a more real audio presence.
Furthermore, various advanced functions such as the multi-angle, multilingual, and Parental Control functions are provided with the DVD.

DVD-RW
A DVD-RW is a recordable and rewritable disc that is the same size as a DVD VIDEO. The DVD-RW has two different modes: VR mode and video mode. DVD-RWs created in video mode have the same format as a DVD VIDEO, while discs created in VR (Video Recording) mode allow the contents to be programmed or edited.

DVD+RW
A DVD+RW (plus RW) is a recordable and rewritable disc. DVD+RWs use a recording format that is comparable to the DVD VIDEO format.

File
An MP3/WMA track, JPEG image, or a DivX video on a DATA CD/DATA DVD. (“File” is an exclusive definition for this unit.) A single file consists of a single track, image, or movie.

Film based software, Video based software
DVDs can be classified as Film based or Video based software. Film based DVDs contain the same images (24 frames per second) that are shown at movie theaters. Video based DVDs, such as television dramas or sit-coms, displays images at 30 frames (or 60 fields) per second.

Scene
On a VIDEO CD with PBC (playback control) functions, the menu screens, moving pictures and still pictures are divided into sections called “scenes.”

Super Audio CD
Super Audio CD is a new high-quality audio disc standard where music is recorded in the DSD (Direct Stream Digital) format (conventional CDs are recorded in the PCM format). The DSD format, using a sampling frequency 64 times higher than that of a conventional CD, and with 1-bit quantization, achieves both a wide frequency range and a wide dynamic range across the audible frequency range, and so provides music reproduction extremely faithful to the original sound.

Title
The longest section of a picture or music feature on a DVD, movie, etc., in video software, or the entire album in audio software.

Track
Section of a picture or a music piece on a VIDEO CD, CD, Super Audio CD, or MP3/WMA. An album is composed of several tracks (MP3/WMA only).

continue to next page →

VIDEO CD

A compact disc that contains moving pictures. The picture data uses the MPEG 1 format, one of a worldwide standard of digital compression technology. The picture data is compressed to about 1/140 of its original size. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures.

VIDEO CDs also contain compact audio data. Sounds outside the range of human hearing are compressed while sounds we can hear are not compressed. VIDEO CDs can hold 6 times the audio information of conventional audio CDs.

There are 3 versions of VIDEO CDs.

- Version 1.0, 1.1: You can play only moving pictures and sound.
- Version 2.0: You can play high-resolution still pictures and enjoy PBC functions.

This unit conforms to all 3 versions above.

Language code/area code list

Language code list

The language spellings conform to the ISO 639: 1988 (E/F) standard.

Code	Language	Code	Language	Code	Language	Code	Language
1027	Afar	1183	Irish	1347	Maori	1507	Samoan
1028	Abkhazian	1186	Scots Gaelic	1349	Macedonian	1508	Shona
1032	Afrikaans	1194	Galician	1350	Malayalam	1509	Somali
1039	Amharic	1196	Guarani	1352	Mongolian	1511	Albanian
1044	Arabic	1203	Gujarati	1353	Moldavian	1512	Serbian
1045	Assamese	1209	Hausa	1356	Marathi	1513	Siswati
1051	Aymara	1217	Hindi	1357	Malay	1514	Sesotho
1052	Azerbaijani	1226	Croatian	1358	Maltese	1515	Sundanese
1053	Bashkir	1229	Hungarian	1363	Burmese	1516	Swedish
1057	Byelorussian	1233	Armenian	1365	Nauru	1517	Swahili
1059	Bulgarian	1235	Interlingua	1369	Nepali	1521	Tamil
1060	Bihari	1239	Interlingue	1376	Dutch	1525	Telugu
1061	Bislama	1245	Inupiak	1379	Norwegian	1527	Tajik
1066	Bengali;	1248	Indonesian	1393	Occitan	1528	Thai
	Bangla	1253	Icelandic	1403	(Afan)Oromo	1529	Tigrinya
1067	Tibetan	1254	Italian	1408	Oriya	1531	Turkmen
1070	Breton	1257	Hebrew	1417	Punjabi	1532	Tagalog
1079	Catalan	1261	Japanese	1428	Polish	1534	Setswana
1093	Corsican	1269	Yiddish	1435	Pashto;	1535	Tonga
1097	Czech	1283	Javanese		Pushto	1538	Turkish
1103	Welsh	1287	Georgian	1436	Portuguese	1539	Tsonga
1105	Danish	1297	Kazakh	1463	Quechua	1540	Tatar
1109	German	1298	Greenlandic	1481	Rhaeto-	1543	Twi
1130	Bhutani	1299	Cambodian		Romance	1557	Ukrainian
1142	Greek	1300	Kannada	1482	Kirundi	1564	Urdu
1144	English	1301	Korean	1483	Romanian	1572	Uzbek
1145	Esperanto	1305	Kashmiri	1489	Russian	1581	Vietnamese
1149	Spanish	1307	Kurdish	1491	Kinyarwanda	1587	Volapük
1150	Estonian	1311	Kirghiz	1495	Sanskrit	1613	Wolof
1151	Basque	1313	Latin	1498	Sindhi	1632	Xhosa
1157	Persian	1326	Lingala	1501	Sangho	1665	Yoruba
1165	Finnish	1327	Laothian	1502	Serbo-	1684	Chinese
1166	Fiji	1332	Lithuanian		Croatian	1697	Zulu
1171	Faroese	1334	Latvian;	1503	Singhalese		
1174	French		Lettish	1505	Slovak		
1181	Frisian	1345	Malagasy	1506	Slovenian	1703	Not specified

Area code list

Code	Area	Code	Area	Code	Area	Code	Area
2044	Argentina	2165	Finland	2362	Mexico	2149	Spain
2047	Australia	2174	France	2376	Netherlands	2499	Sweden
2046	Austria	2109	Germany	2390	New Zealand	2086	Switzerland
2057	Belgium	2248	India	2379	Norway	2528	Thailand
2070	Brazil	2238	Indonesia	2427	Pakistan	2184	United
2079	Canada	2254	Italy	2424	Philippines		Kingdom
2090	Chile	2276	Japan	2436	Portugal		
2092	China	2304	Korea	2489	Russia		
2115	Denmark	2363	Malaysia	2501	Singapore		

Numerics

16:9 39
2000MP3 6
2000WMA 6
4:3 LETTER BOX 39
4:3 PAN SCAN 39

A

Album (ALBUM) 30
Alternative Frequencies (AF) 35
Angle (ANGLE) 17
Area code 57
Audio (AUDIO)
- Channel 25
- Format 25
- Language 25, 39

Audio DRC (AUDIO DRC) 41
Audio setup (AUDIO SETUP) 41
Auto Off (A.OFF) 43
Auto Scroll (A.SCRL) 43
Auxiliary equipment 45
Auxiliary Level (AUX-LVL) 44, 46

B

Balance (BAL) 37
Beep sound (BEEP) 43
Best Tuning Memory (BTM) 34

C

Card remote commander 12, 14, 50
Chapter (CHAPTER) 30
Clock Adjust (CLOCK ADJ) 45
Clock Time (CT) 35, 36, 43
Custom setup (CUSTOM SETUP) 40

D

Demonstration (DEMO) 43
Dimmer (DIM) 43
Direct search play 30
Discs 8
Display setup (DISPLAY SETUP) 39
DivX VOD 40
DivX® 9, 21, 49
Dolby Digital 25, 26
DVD Level (DVD-LVL) 26, 44
DVD menu 17
DVD's top menu 17
Dynamic Range Control (DRC) 41

E

EQ7 37
Equalizer
- Picture (PICTURE EQ) 27, 40
- Sound (EQ7) 37

F

Fader (FAD) 37
File (FILE) 30
Folder (ALBUM) 30
Formats 9
Front AUX 45
Fuse 50

H

High Pass Filter (HPF) 44

I

Image (IMAGE) 30

J

JPEG 9, 21, 49

K

Karaoke 31

L

Language code 57
Language setup (LANGUAGE SETUP) 39
Layer (SUPER AUDIO CD LAYER, DISC.LAYER) 33, 41, 44
List up (LIST) 32
Lithium battery 50
Local Seek Mode (LOCAL) 44

M

Menu language (MENU) 39
Monaural Mode (MONO) 44
Monitor type (MONITOR TYPE) 39
Motion Display (M.DSPL) 43
MP3 9, 49
Multi Border DVD 49
Multi Session CD 49
Multi-disc resume playback (MULTI-DISC RESUME) 6, 40

P

Parental control (PARENTAL CONTROL) 28, 40
Picture EQ (PICTURE EQ) 27, 40
Play list play (PLAY LIST PLAY) 40
Play mode menu 22
Playable discs 8
Playback control (PBC) 22
Program format 25
Program Types (PTY) 35, 36

R

Radio Data System (RDS) 35
Region code 9
Regional (REG) 36, 44
Repeat play (REP) 29, 47
Reset (RESET) 14, 41
Resume play 17, 19
Rotary Commander (RM) 43, 47

S

Setup menu
    System setup 42
    Visual setup 38
Shuffle play (SHUF) 29, 47
Slide show interval
(SLIDE SHOW TIME) 40
Soundtrack language
(AUDIO) 25, 39
Subtitle language
(SUBTITLE) 17, 39
Super Audio CD
    Layer
      (SUPER AUDIO CD
      LAYER, DISC.LAYER)
      33, 41, 44
    Sound quality (SUPER
      AUDIO CD MODE, SA-
      CD MOD) 34, 41, 44
System setup 42

T

Time/text information
(TIME) 24, 30
Title (TITLE) 30
Track (TRACK) 30
Traffic Announcement (TA) 35
Traffic Program (TP) 35

V

Visual setup 38
Volume
    Echo 31
    Main unit 10
    Microphone 31
    Traffic announcement 36

W

Wallpaper (WALLPAPER) 39
WMA 9, 49

Z

Zoom (CENTER ZOOM) 26

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